



High Technology for a Better Life @ Home



Power Products



Electronic Components



Home Automation



Computer Products



Personal Security

Look inside now –
We've added over
670 products!



Test & Measurement



Design & Education



99% In-Stock
Low Price Guarantee
24/7 Service
Popular and Hard-to-Find Items

1-800-455-6119
www.Jameco.com

Winter/Spring 2004 Volume 641

Make your Maglite® 100 times more useful!

These handy helpers are just the thing to make your Maglite® hands-free! Now you can easily direct the powerful Maglite® beam of light right where you need it! Just position your little "friend" using super-flexible legs, and a strong beam illuminates your projects, comfortably and reliably. No more balancing acts, no more "mouthlights!" Two models come complete with Maglites®, either in AA or AAA sizes. The other two are ready to convert your existing mini-flashlights into useful, versatile workbench buddies.

Part No.	Description	Price
239880EA	Flashlight Friend® with AA Maglite®	\$19.99
239898EA	Flashlight Friend® with AAA Maglite®	14.99
239901EA	Flashlight Friend® for existing AA flashlights	7.95
239919EA	Flashlight Friend® for existing AAA flashlights	4.95

More flashlight accessories on pages 64 & 65.



So many different options. Hang them, hook them, stand them; the possibilities are endless!



Simply plug one unit into your computer, the other into your printer and you are ready for wireless printing. No more messy cables!

Find your way with this digital compass and stopwatch combo.

This amazing digital compass will point you in the direction of high adventure, with a pinpoint 2° of accuracy. It's smart enough to know exactly where you're heading, anywhere in the world, anytime. And speaking of time, an integrated stopwatch, timer and 12/24 hour clock are also included in this compact, water-resistant little wonder. As a primary guide or as a backup to your GPS, you'd be lost without it!

Part No.	Description	Price
236793EA	Digital compass & stopwatch	\$24.99

See page 94 for our GPS and selection of other compasses!



Print up to 100 feet away, wirelessly!

Convenience and ease-of-use are what the wireless revolution is all about, and this kit will easily make your current printer conveniently cable-free! Now you can place your printer where you want it, not just where the cable will reach. Easy, plug-and-play USB installation means set-up is trouble-free, too. Works with many Canon, Epson, HP and Lexmark printers; and Windows® XP/2000/ME/98 or Mac OS X v10.2.

Part No.	Description	Price
235133EA	Wireless printer kit	\$89.95

Compactly designed battery tester.

Simply lift the swivel arm of this battery tester, place your battery between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA, AA, C, D, 9V, and button cell batteries.

Part No.	Description	Price
239556EA	Compact battery tester	\$4.99

See our new selection of batteries on page 34



Burn CDs on the go, with no AC power!

Barely bigger than a CD, this self-contained burner packs a super set of features into a compact, portable package. USB 2.0 lets you write your discs at 8x speed and read at 24x speed. Plus, this mobile unit gets all the power it needs from the computer connection and its built-in rechargeable lithium ion battery pack. Comes with USB 2.0 cable, wall charger, Nero video/audio/data mastering software, manual and case. Supported operating systems: Win® 98 SE/ME/2000/XP.

Part No.	Description	Price
243061EA	Portable CD-R/RW drive	\$149.95



Sleek and compact design — it's just slightly bigger than a CD-ROM!

Display your message in thin air!

Tell the world how you feel! Just wave this high-tech wand, and messages seem to float in the air, lit up with bright LEDs. Great for kids, parties or even to display distress messages. Your kit-building skill and the magic of electronics make it possible. Plenty of built-in messages come ready-to-run, or program in your very own 7-character memo. Requires two AAA batteries (listed below).



Part No.	Description	Price
239441EA	Magic message kit	\$19.95
249228EA	AAA batteries (4-pack)	2.20



Cold-Cathode Lighting



Add fluorescent color to your projects, computer case, car and other displays with these economical lights. Now you can easily and affordably mount these 4" light tubes to add cool cold-cathode effects and give your display a richer, trick look and feel. Optional power supply below converts 12VDC input into 180-800V output needed by lights.

Part No.	Description	Price
239581EA	Black light	\$9.95
239572EA	Blue light	9.95
239599EA	Green light	9.95
239601EA	Pink light	9.95
239610EA	White light	9.95
239628EA	Yellow light	9.95
239636EA	Power supply for above	9.95

Lightbulb camera. Just screw it in, plug in the remote, and see via TV!

Built-in infrared LEDs light up
scene even in total darkness!



The bulb looks like a standard fixture, but it really contains a mini-cam and transmitting encoder in a sturdy, weatherproof enclosure. Simply screw the bulb-camera into any outdoor light socket, plug the mini-receiving decoder into any TV in your house, and you are ready to watch the peace-of-mind channel. Installation couldn't be easier.

You'll get a clear birds-eye view of your security perimeter, even in total darkness with built-in infrared LEDs. No fishing wires through walls, drilling holes, mounting antennas, or changing and checking batteries. Transmission is through your home's current wiring. While your other outdoor lights illuminate the scene, the SecureView outdoor camera provides the picture you need. Feel safer today.

Part No.	Description	Price
219379EA	Outdoor camera and decoder	\$199.99

Bargain-priced night-time visibility from First Alert™



Now you can get four night lights for under ten bucks! These handy little lights do one important thing, and they do it very well: they come on when it's dark, and go off when it's not, safely and reliably. Just plug them into outlets in hallways, your workshop or the children's rooms and you'll always have light, right where you need it. At this price, you can enjoy "night vision" throughout your home!

Part No.	Description	Price
235037EA	4 automatic night lights	Only \$9.95

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

Locked out again? Keep a spare key handy, but off-limits to thieves.

Never get locked out of your car or house again. Get peace-of-mind knowing a spare key is available to you, and only you.

Hide a key near your home or car, and you've just set out the welcome mat for thieves. But now you can get to a spare key in seconds... and thieves can't get to it ever.

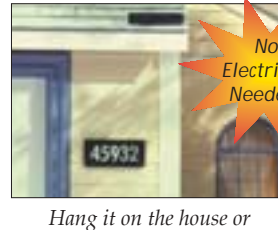
No need to find the perfect hiding place — even if they see it, they can't get in! Give temporary access to anyone you choose, like contractors or service workers, then change the combination and they won't get in again. The black weatherproof cover seals out moisture and dirt. The

keyring built into the cover makes sure you return the key to the box for next time. These weatherproof 1.5-lb. key vaults molded of drillproof, sawproof titanium and zinc alloy open only when you press your preset combination on the 10-button keypad. Mount one in minutes to your car, truck or an outside wall of your home. Includes all mounting screws.



Part No.	Description	Price
223925EA	Auto/SUV StorAKey with weather cover	\$39.95
223941EA	Home/office StorAKey w/ weather cover (clay)	39.95
223933EA	Home/office StorAKey w/ weather cover (white)	39.95

Get your address noticed without wiring hassles!



Your friends, the pizza delivery guy, and if the need ever arises, emergency services won't miss your house again because you forgot to turn on the light. Our fully customizable, illuminated sign announces your address with clarity and class, day and night. Its sealed solar panel and rechargeable power cells mean you won't have to worry about running wires, changing batteries, or wasting electricity. On at sundown, off at dawn, this sign is a fully automatic, weatherproof and theft resistant way to make sure your house is found. Hang it on your home, or use the enclosed post. Works like a charm.

Part No.	Description	Price
219272EA	Solar-powered house light	\$49.95

Don't ever be caught vulnerable at night. Add a solar-charged halogen light!

Dark spots around your business, house or neighborhood are vulnerable to vandalism or burglary. To protect your property, equip it with our new outdoor security lights and motion sensors. This solar outdoor security light has all the answers to your needs. All you need are simple tools to mount the unit to the wall. No complicated wiring or electrician needed. The built-in batteries are rechargeable by sunlight, so if the main power goes out you still have security lighting. The solar panel, which has a 12' cord, can be positioned

for optimum
light exposure.

- Lights up to 60 times on a single charge
- Charges by day, lights by night
- Complete with built-in motion detector, rechargeable battery and bright halogen light
- Easy to install • Weight: 7.1 lbs.

Part No.	Description	Price
219580EA	Solar outdoor floodlight	\$79.95



Just-in-time stocking only at Jameco.

Take advantage of our "just in time" fast delivery. Only Jameco has stocking levels that guarantee 99% in-stock availability! Call any weekday before 6:00 PM EST, and you can be assured you can have it the next morning.

Don't get frustrated... find it at Jameco!

Come to Jameco for popular electronic components, computer products, test equipment, and our latest selection of products for your home and personal use; all at unbeatable prices. You can also find those elusive and frustratingly hard-to-find items, and even some out-of-production parts, too! Join the multitudes of happy Jameco customers... You'll be glad you did.

The Color Code Legend... For easy reference we have included this color code legend on every page.

Find New Products Quickly... Look for the part numbers in **magenta**.

Save on Sale Items!... Sale products are highlighted in **yellow and orange**, so you can identify items whose prices have been reduced in all quantities.

SALE

Part No.	Product No.	Price	Description	1	10	25
1402	14	14	14	14	14	14
1402	14	14	14	14	14	14
1402	14	14	14	14	14	14

NEW

Last Chance Opportunities... Unfortunately we're not always able to restock certain hard-to-find products. In this case we'll print **blue** part numbers, so if we know there's limited stock, you'll also know.

Hard-to-Find Products... Some products are no longer produced, and yet we know you need them. That's why we occasionally offer pulled or refurbished products. Pulled part numbers are clearly printed in **purple** and refurbished in **brown**. Each is backed by our standard Jameco warranty.

Jameco's price Reductions are Substantial...

Rest assured your savings are not just numerous they're significant too! Look for former prices slashed out to the left.

Part No.	Product No.
155643	DC603F1

Part No.	Product No.
25101	MC146818

Part No.	Description	1	10	25
199718EA	82-key PS/2	\$49.95	\$44.95	\$38.95
114868EA	84-key AT	\$56.99	49.95	44.95 38.95

Jameco's Low-Price Guarantee

We'll match the advertised price of any like product. It's that simple!

Our Low Price Guarantee Doesn't Get Much Use...

... And we like it that way. We take our Low-Price Guarantee seriously, so we search around the world to identify the sources for the lowest prices for our high-quality products. In fact, we have a team of people dedicated to making sure we have the lowest prices available.

The Jameco Advantage...

Low-Price Commitment

We'll match the advertised price of any like product. It's that simple.

Around-the-Clock Ordering

You can call us at 1-800-455-6119 24x7x365 to place your order. Or visit us on the web at <http://www.Jameco.com>.

Same Day Shipping & Always In-Stock

99% of orders placed by 6 PM EST are shipped the same day, and 99% of our items are in-stock!

Help Avoid Duplicate Catalogs

While we don't intend to send multiple catalogs to the same person, on occasion we do make mistakes. If you're incorrectly receiving multiple catalogs, please visit our web site at www.Jameco.com/DupCats and we'll remove the duplicates. Alternatively, you can mail the duplicate back-covers to us:

Jameco Electronics – Duplicate Catalogs – 1355 Shoreway Rd., Belmont, CA 94002



Contact Information

Order Desk 24/7, 365 Days a Year

Phone: 1-800-455-6119

Fax: 1-800-237-6948

E-mail: sales@Jameco.com

Website www.Jameco.com

International Order Desk

Phone: 650-592-8097

Fax: 650-592-2503

E-mail: international@Jameco.com

Technical Support

Phone: 1-800-831-4242

E-mail: tech@Jameco.com

Customer Service

Phone: 1-800-831-4242

E-mail: custservice@Jameco.com

Credit Department

Phone: 650-592-8097

E-mail: credit@Jameco.com

International Toll-Free Fax Numbers

Columbia: 980-9-136748

Mexico: 001-800-593-1449

Indonesia: 1-803-015-237-6948

Brazil: 000-817-455-6119

New Zealand: 080-044-0470

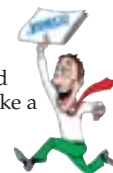
Product Marketing

Tell us about new products you would like us to offer. Send request to AtHome@Jameco.com

Refer a Friend

Are you tired of loaning your latest copy of the Jameco catalog to a friend or business associate? If they can't take a hint just visit our website at: www.Jameco.com/CatReferral.

We'd be happy to send them a catalog too!



A complete home entertainment center for people on the go!

Make the miles fly by! Simply place this portable, self-contained unit on the console or hang it on the back of a front seat and your backseat passengers can watch DVDs/ SVCDs/VCDs, listen to CDs (MP3s, too!), or watch live, local channels with the built-in TV tuner. Integrated speakers, headphone jack, AC/DC power options, remote control and A/V inputs/outputs for video game systems and external playback complete the picture!

- 5.5" Color LCD screen
- Built-in, extended reception TV tuner and Dolby digital
- Wide screen 16:9 format or 4:3 standard TV format
- Built in speaker and headphone jack
- DVD, SVCD, VCD, MP3 disk and CD compatible

Includes: Two remote controls, AV cable, DC power adapter and carrying case.

Part No.	Description	Price
239732EA	5.5" portable DVD player with TV	\$399.99



This super sports timer is "second" to none!

You might pay more, but you won't find a more full-featured and ingeniously useful stopwatch than this pocket-sized powerhouse. Time single events, cumulative splits, and compare two competitors with 1/100th of a second accuracy for events up to 30 minutes. Clock and calendar functions round out the outstanding features.

- Time/calendar display: hours, minutes, seconds, month, date and day of week
- Alarm and snooze function
- Time display mode: 12/24hr. mode selectable

Part No.	Description	Price
239652EA	Multi-function sports timer	\$9.99



See detailed Product Index on pages 104 & 105

DIY Remote Controlled Lights & Security ..6-16

Integrated Circuits17-21

Electronic Components22-27

Optoelectronic Components28-30

Power Products & Batteries31-40

Component Kits, Grab Bags & Books41-43

Electromechanical Components44-47

Interconnect & Hardware48-51

Electronic Design52-55

Soldering & Tools56-65

Test Equipment.....66-70

Computer & Networking Products.....71-86

@ Home Products.....87-97

Solar, Lasers & Kits98-101, 106, 107

Order Form, Info & Product Index.....102-105

PRICES

Prices are effective 1-19-04

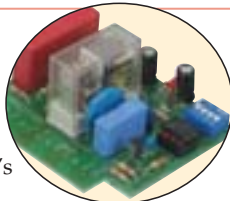
Prices and discounts are subject to change without notice.

Technology Products for your Personal Use

Looking for interesting technological devices that can help make your personal life easier, more productive and more interesting? This latest edition of our @ Home catalog features over 660 added products; over 100 of which are new items specifically focused on improving your techy lifestyle.

Be sure to check out the new Home Automation kits on pages 106-107. These kits allow you to control your house's lights, appliances and other devices via remote control or standard telephone.

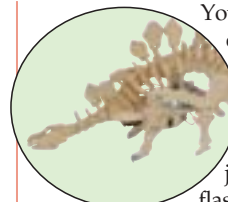
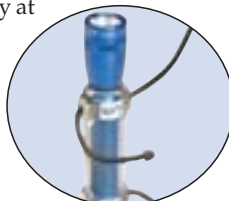
We also continue to expand our line of products to make life more productive and convenient. Now you can turn your



existing USB printer into a wireless printer and use it up to 100' away! See our wireless converters on page 2.

On pages 2, 64 & 65 you'll find Flashlite

Friends® accessories, enabling you to position your powerful Maglite® beam exactly where you need it. For those who prefer greater protection from telemarketers especially at dinnertime, we offer zipper technology with built-in caller-ID capability on page 93. And everyone should visit page 34 if you need a hard-to-find battery.



You'll find something for every member of the family, whether electronics hobbyist, trekkie, dinosaur enthusiast, multimedia junkie, power traveler or flashlight friend. Be sure to take a look through our newest catalog today.

By the way, if you're not finding the products you need, be sure to visit our web site at www.Jameco.com today. You'll find all of these great products and thousands more, in stock and priced to save you money. And if you have a new product idea, be sure to send the specifics to AtHome@Jameco.com.



The home of the future is yours now. Enjoy convenience and protection with our **automated security, appliance & lighting control.**

Our wireless automated lighting and security systems offer convenience and peace-of-mind at a price anyone can afford.

IMAGINE CONTROLLING your home lighting, appliances and stereo system, or securing your home with the touch of a button. Pull into the driveway and the house lights come on. Push a button from your bedroom and all the house lights go off. Push another button in your home theater or TV room, and the lights dim to ideal viewing levels. Push a button and your security system is armed. Push a button again and your coffee pot starts, air conditioner stops, washing machine starts, etc. No more fumbling for

hard-to-reach switches. No more trying to remember which switch controls what. No more wondering if that noise downstairs might be an intruder.

On the next several pages, you'll find products that can transform your home into a safe, comfortable haven for you and your family. There's no wiring to run, no monthly fees, and, best of all, they're priced so low there's no reason to spend another night feeling vulnerable. So go ahead, discover how easy and affordable we've made it to automate your home right now.

DIY Home Upgrades	Page
DIY Home Lighting Upgrades	7
Whole-House Lighting Control (RF)	8, 9
Home Security Systems	10, 11, 13
Home Surveillance Systems	12, 13
Home Automation (Kits)	106, 107
Stand Alone Security Systems	14-16

Control lamps and other lighting from your favorite chair in your TV room or home theater (p.7) or from anywhere in your home (p. 8, 9).

Turn on internal or external lights before entering (p. 8) and activate your home security system from your car (p. 10, 11).

Motion Sensors in the Home Security Kit (p. 10, 11) sound the alarm if someone manages to get inside.

Appliance Module (p.9) allows you to control your small appliances like coffee pots and televisions.

Our Home Security System with auto-dialer tracks you down or alerts a friend by calling up to 4 phone numbers in the event of a break-in (p. 10, 11).

Surveillance cameras (p. 12-16) let you keep an eye on the action anywhere in your home.

Dimmers instantly soften the light from overhead chandeliers and/or lamps in your dining room to set the right mood (p. 7-9).

Turn specific lights or all the lights on and off remotely, even from your bed (p. 8, 9).

Door and window sensors (p. 10, 11) alert you the instant an intruder tries to break in.

Detect and scare off would-be intruders with realistically loud and vicious-sounding barking from Bruiser, the Barking Dog (p. 13).

The lights fade. The hush falls. The excitement grows. The adventure is about to begin.

Experience the drama and convenience of remote controlled lighting in your home theater or TV room without spending a fortune or rewiring your home. At the push of a button, the Lutron Home Theater System dims all incandescent and halogen lamps and lighting fixtures in the room to your preset preferences, even if your lights couldn't dim before. As the lights fade, you'll feel the excitement of being in a real movie theater. Preset up to 3 more lighting "scenes" with the Four-Scene Remote and go from movies to games to reading to snuggling to lights-out, all without touching a light switch. The dimmers will even respond to many programmable TV remotes!

Installs in 15 minutes without wires.

Just plug your lamps into Lutron Lamp Dimmers and replace your wall switches with Lutron Wall Dimmers. That's all there is to it. You can operate any dimmer manually to control a single fixture.

Or pick up the remote control and operate all the lights simultaneously. The Favorite Scene Remote lets you recall one lighting scheme instantly. The Four-Scene Remote lets you preset up to four lighting tableaux. Order the right type of dimmer for each light switch, but just one remote. Need

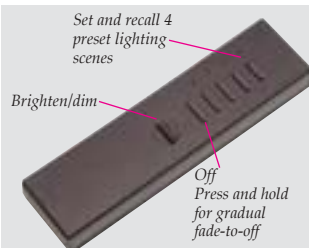
help choosing the right components? Call our friendly and knowledgeable Technical Support team at 1-800-455-6119.

How Dimmers Work

Our wall switch dimmer dims/brightens/fades lights manually or from a remote signal. For use with fixtures controlled by a single wall switch. For fixtures with two or more switches controlling the

same light, order one master and a companion switch for each additional switch. Order one to replace each wall light switch. 600W capacity. Note: Can be "ganged" in the same wallbox, reducing load to 500 watts (2-gang) or 400 watts (3-gang).

Bring down the "house lights" without leaving your seat. No fumbling, no wires, no fuss.



Four-Scene Remote Control

Recalls preset light levels for four scenes plus off, and fine tuning of light levels. Scenes are dependent upon dimmer settings. Range is 50' line-of-sight to receiver. Order one for each room.

235731EA Four-scene remote ...\$99.99

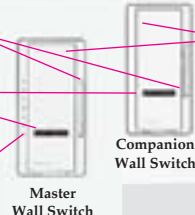


Favorite Scene Remote Control

Extra remote packaged with several dimmers. Recalls preset light levels for one scene plus off, and fine tuning of light levels. Range is 30' line-of-sight to receiver.

Rocker brightens and dims the light

LEDs indicate light level and glow softly to find in the dark



Turn lights on:

- Tap once, lights gradually go on to your predetermined light level.
- Tap twice, lights go on to full illumination

Turn lights off:

- Tap once, lights go off over 3 seconds
- Press or hold, lights go off over 10-60 seconds



Lamp Dimmer

Just plug in your lamp. Sits unobtrusively on table. Dims/brightens/fades lamp manually or from a remote control. Order one for each lamp. 300W capacity.

235601EA Lamp dimmer\$89.99

Multi-Location Wall Switches

Buy one Master Wall Dimmer and an Accessory Wall Dimmer for each additional switch that controls the same light. Dimmers offer a large 600 watt capacity.

Order a bundle and save!

We've bundled Favorite-Scene Remotes with a variety of switches and passed on the savings to you!

IR Remote Controlled Dimmers and Accessories

Part No.	Description	Remote Included	Master Dimmer	Accessory Dimmer	Color	Price	Usage
235643EA	Single Master Wall Switch Dimmer	No	Yes	No	White	\$94.99	For use on lights with one wall switch
235660EA	Single Master Wall Switch Dimmer	No	Yes	No	Light Almond	94.99	For use on lights with one wall switch
235651EA	Single Master Wall Switch Dimmer	No	Yes	No	Ivory	94.99	For use on lights with one wall switch
235619EA	Single Master Wall Switch Dimmer and Remote	Favorite Scene	Yes	No	White	124.99	For use on lights with one wall switch
235635EA	Single Master Wall Switch Dimmer and Remote	Favorite Scene	Yes	No	Light Almond	124.99	For use on lights with one wall switch
235627EA	Single Master Wall Switch Dimmer and Remote	Favorite Scene	Yes	No	Ivory	124.99	For use on lights with one wall switch
235678EA	Master & Companion Wall Switch Dimmers	No	Yes	Yes	White	134.99	For use on lights with two wall switches
235694EA	Master & Companion Wall Switch Dimmers	No	Yes	Yes	Light Almond	134.99	For use on lights with two wall switches
235686EA	Master & Companion Wall Switch Dimmers	No	Yes	Yes	Ivory	134.99	For use on lights with two wall switches
235707EA	Master & Companion Wall Switch Dimmers & Remote	Favorite Scene	Yes	Yes	White	164.99	For use on lights with two wall switches
235723EA	Master & Companion Wall Switch Dimmers & Remote	Favorite Scene	Yes	Yes	Light Almond	164.99	For use on lights with two wall switches
235715EA	Master & Companion Wall Switch Dimmers & Remote	Favorite Scene	Yes	Yes	Ivory	164.99	For use on lights with two wall switches
236890EA	Companion Wall Switch Dimmer	No	No	Yes	White	27.99	For use with any IR Master Dimmer
236902EA	Companion Wall Switch Dimmer	No	No	Yes	Light Almond	27.99	For use with any IR Master Dimmer
236911EA	Companion Wall Switch Dimmer	No	No	Yes	Ivory	27.99	For use with any IR Master Dimmer
235601EA	Lamp Dimmer	No	NA	NA	Royal Plum	89.99	For use with any incandescent or halogen lamp
235598EA	Lamp Dimmer and Remote	Favorite Scene	NA	NA	Royal Plum	119.99	For use with any incandescent or halogen lamp
235731EA	Four-Scene Remote Control	Four-Scene	NA	NA	Royal Plum	99.99	For use with all dimmers listed above
235803EA	Decorative Screwless Faceplate	NA	NA	NA	White	4.99	For one switch
235820EA	Decorative Screwless Faceplate	NA	NA	NA	Light Almond	4.99	For one switch
235811EA	Decorative Screwless Faceplate	NA	NA	NA	Ivory	4.99	For one switch
235838EA	Decorative Screwless Faceplate	NA	NA	NA	White	9.99	For two switches
235854EA	Decorative Screwless Faceplate	NA	NA	NA	Light Almond	9.99	For two switches
235846EA	Decorative Screwless Faceplate	NA	NA	NA	Ivory	9.99	For two switches
235862EA	Decorative Screwless Faceplate	NA	NA	NA	White	14.99	For three switches
235889EA	Decorative Screwless Faceplate	NA	NA	NA	Light Almond	14.99	For three switches
235871EA	Decorative Screwless Faceplate	NA	NA	NA	Ivory	14.99	For three switches
235897EA	Decorative Screwless Faceplate	NA	NA	NA	White	19.99	For four switches
235918EA	Decorative Screwless Faceplate	NA	NA	NA	Light Almond	19.99	For four switches
235900EA	Decorative Screwless Faceplate	NA	NA	NA	Ivory	19.99	For four switches

All Lutron Dimmers work on incandescent and halogen lights only.

Order 24/7 Toll Free 1-800-455-6119

Control every light in your home from your chair, your bed, or even

IT'S 11:30 P.M. and the house is ominously dark as you pull into your driveway. Do you enter blindly, lunging for the nearest light switch? No. From the safety of your car, you push a button on a keychain remote, and the front porch and downstairs blaze with light, seeing you safely inside. Later, as you slip into bed, you push a button on a handheld remote, and the whole house goes dark.

Our automated lighting control system using X10 technology lets you operate the lights in your home from your car or from anywhere in your home. You can turn on, turn off or dim lights, even if they couldn't dim before. A single button can operate individual lights, groups of lights, whole rooms, or even the whole house. It works with lamps, wall-switched fixtures, even appliances.

As easy as replacing a switch. No new wiring!

Just plug your lamps into Lamp Dimmers and replace your wall switches with Master Dimmers. Replace multi-location switches with a Master Dimmer and Companion Switch(es). Plug the Transceiver into a wall outlet, and you're done. The remotes communicate with the transceiver via radio frequency signals that travel up 100', even through walls. That means you don't have to be in the same room as the lights you're controlling—you don't even have to be in the house. The transceiver sends your commands to the dimmers through the wiring already in your walls.



Never fumble over a light switch or trip over the unexpected again. With a handy remote in your bathrobe pocket you'll light your path safely down the hall or stairs with just a single touch.

Think of the possibilities.

Left the garage light on? Turn it off from your chair. Working around the house? Light rooms completely with one button; darken them as you leave. Entertaining guests? Dim the lights for dinner or a movie; brighten them for good-byes. Time to turn in? Turn out every light in the house at once. Suspicious noise in the night? Blast the whole downstairs with light from the safety and comfort of your bed. You're in control, once and for all.



Turn off all the lights—even the television—from bed.

Home Lighting Control Kit

Our economically priced starter kit contains everything you need to control one lamp and one wall-switched lighting fixture from your car or home. To control multiple lights from one place, you'll want to add dimmers for each light source in your home or garage. Order additional Keychain Remotes for other family members, and additional House Remotes for upstairs, bedrooms, or wherever you need them. You'll find these additional components and accessories on the facing page.

Part No.	Description	Price
236478EA	Home lighting control kit	\$99.99

Home Lighting Control Kit Includes Everything Here:

House Remote Control

Turns on or off, dims or brightens up to 16 individual lights or up to 16 groups of lights whose receivers are set to the same "address". For instance, turn off all downstairs lights with one button. Works up to 100' from transceiver.



Keychain Remote Control

Turns on/off and dims two lights or two groups of lights from within a closed car. Up to 50' range.



Transceiver

Plug into any wall outlet. Receives signals from your remotes up to 100' away and sends on/off/dim commands to lamp and lighting fixture receivers through your home wiring. Also includes an outlet for controlling a lamp or appliance, such as a TV. Each transceiver controls up to 256 devices.



Lamp Dimmer/Receiver

Allows you to control (on/off/dim) lamps manually or remotely. Plug controller into wall outlet; plug lamp into controller. 300W max.



Master Dimmer Switch/Receiver

Replaces standard light switch. Allows manual control of connected fixture, or responds to remote signal. For fixtures with more than one switch, use Master Dimmer with Companion Dimmers (below). 500W max.



Companion Dimmer Switch/Receiver

For use on fixtures controlled by two or more switches. Replace one switch with Master Dimmer Switch and all other switches with Companion Switches. All switch locations must be replaced.



See Pages 106 & 107 for Our New Home Automation Kits

your car! No new wiring. No trekking from switch to switch.



Light the porch and entry hall before leaving your car.

Frequently Asked Questions

Can I remotely control devices besides my lighting, like my TV or coffeepot, for instance?

Yes, but you need to be sure to use the right controller for the device controlled. Appliances such as your television or coffeepot need a steady voltage level, so they should be plugged directly into the transceiver or appliance module. Never plug appliances into controllers that dim, such as the lamp or wall dimmers. The transceiver is rated for 20 Amps inductive (TVs are inductive) or 500 watts incandescent. The appliance module is rated for 15 amps or 500 watts. Many heated appliances, such as coffeepots, draw more, so be sure to check.

You said the House Remote can control up to 16 lights or groups of lights. What does that mean?

Each receiver/dimmer and transceiver in the system contains two 16-position "code wheels" that allow you to assign any of 256 unique "addresses" to that receiver. That address corresponds to one of the buttons on the House Remote. When you push the button on the remote, any receiver with that address



code wheel

will respond. But you don't have to give each receiver its own address; you can assign the same address to several receivers. So whenever you push that button on the remote, the entire *group* of receivers at that address respond. That's handy if you frequently want several lights to respond at the same time—in your home theater, for instance, or in your kitchen or garage. It also means that your 16 button remote can actually be used to control up to 256 devices.

What if I want to turn "all off" and some are already off? Will I end up playing "Whack-A-Mole"?

You don't have to worry about what state the lights are in—the system knows. It puts the lights in the state you want, no matter what state they're currently in.

Can I use this system on fluorescent lights or bulbs?

No, this system is designed only for use with incandescent lighting.

Customize Your Automated Home System with Compatible Add-On Components

House Remote Control

Turns on or off, dims or brightens up to 16 individual lights or up to 16 *groups* of lights whose receivers are set to the same "address". For instance, turn off all downstairs lights with one button. Works up to 100' from transceiver. One remote controls all transceivers.

Part No.	1	4	8
236603EA	\$19.99	\$18.99	\$17.99



Keychain Remote

Turns on/off and dims two lights or two groups of lights from within a closed car. Up to 50' range.

Part No.	1	4	8
236558EA	\$19.99	\$18.99	\$17.99



Lamp Dimmer/Receiver

Allows you to control (on/off/dim) lamps manually or remotely. Plug controller into wall outlet; plug lamp into controller. 300W max.

Part No.	1	4	8
236591EA	\$14.99	\$14.24	\$13.53



Mount-Anywhere 3-Device Wall Switch

Mount this pressure-sensitive switch anywhere you wish you had a wall switch. No wiring! Communicates with the transceiver via RF signals. Three buttons control three lights or groups of lights anywhere in the system. Fourth button dims.

Part No.	1	4	8
236566EA	\$24.99	\$23.74	\$22.55



Motion Detector with 2 Floodlights

Mounts outside under eaves. Turns on floodlights and selected indoor lights when motion is detected or at dusk.

Part No.	1	4	8
236611EA	\$59.99	\$56.99	\$54.14



Master Dimmer Switch/Receiver

Replaces standard, single-location light switch. Allows manual control of connected fixture, or responds to remote signal. 500W max.

Part No.	1	4	8
236574EA	\$19.99	\$18.99	\$17.99



Master Dimmer

Companion Dimmer Switch/Receiver

For incandescent lights controlled by two or more switches, order one Master Dimmer Switch (above), plus one Companion Switch for each additional switch location.

Part No.	1	4	8
236582EA	\$14.99	\$14.24	\$13.53



Companion Dimmer

Plug-in Appliance Module

Controls appliances such as fans, air conditioners, dehumidifiers, coffeepots, stereos, TVs, etc. Rated at 15 amps, 1/3 h.p., 500W.

Part No.	1	4	8
236857EA	\$14.99	\$14.24	\$13.53



Security without sacrifice
Dial-out Home Security Alarm System stops break-ins without

ASK ANYONE who's ever gone through it: When someone breaks into your home or apartment, they don't just take your treasured possessions. They steal your sense of security. You deserve to feel safe, but why pay for overpriced monitored alarm systems? Between installation charges, approval from the apartment manager, the disruption while they run wires through your walls and the monthly fees, it won't be long before you've paid out a lot more than a burglar could ever carry away.

But now you can get a monitored home alarm system that's every bit as effective as some systems costing thousands of dollars. Without the high cost. Without the wires. Without the contract negotiations. Without the mess. And without all those never ending fees!

Not just a local alarm—it actually dials out. Our Home Security Alarm System with wireless X10 technology sets up in minutes without any new wiring. It protects you whether you're at home or away. And if anyone tries to break in, dual piercing alarms alert the whole neighborhood and the Security System Dial-up Console calls up to four numbers you've selected for help with your pre-recorded message.



Here's how fast and easy it is to set up.

1. Mount the door and window sensors and motion sensors with screws and double-sided tape. All mounting hardware and batteries included. You can protect up to 16 zones using motion detectors and door and window sensors.
2. Plug in the light dimmer between a lamp and the wall.
3. Plug in the Blaster Siren.
4. Plug in the Console/Dialer, program it with 4 numbers and record an outgoing message. Don't worry, it won't interfere with your answering machine.

You're done!

No codes, no scrambling, no false alarms. Push a button on the Security Keychain Remote to disarm the system and turn on the lights before you enter. Push it again to arm the

- Detects interior motion and window and door entry when you're away.
- Detects door or window entry when you're home.
- Flashes lights to help police find your house.
- Blasts two excruciatingly loud sirens.
- Calls up to 4 numbers until it reaches a live person who can hear your prerecorded message and call the police.

system after you leave. There are no codes to remember, no race against the alarm. It's as easy as locking and unlocking your car, so your family won't be tempted to "skip it."

When you're in for the night, push a button on the Security Remote to arm just the door and window sensors. Now you can move freely and confidently about your home, knowing the perimeter is secure. A "Panic Button" on either remote instantly activates the alarm if you're in danger.

Piercing alarms are just the beginning. If a break-in occurs, the Console sounds a warning beep for 30 seconds in case you forgot to disarm the system. Then the Console blares an 85dB siren while the Blaster bellows another 110dB warning through the neighborhood, sending intruders running. The lights flash to help police find your house. And the Console dials each preset telephone number in turn until it reaches a human being—it isn't fooled by answering machines. It plays your pre-recorded message (Example: "This is a security system alert from Martin Green. There is a burglary in progress at 2745 Elm Street. Please call police."). Then it allows the person on the other end to listen in on your home for sounds that would help recognize suspicious activity or even identify the perpetrators.

Some communities charge residents for too many false alarms—a real problem for users of monitored systems. Monitoring companies *always* call the police if you don't answer the phone. But our Home Security System lets you or those you trust decide if the alarm appears to be real or false. If it's real, you call the police just like the monitoring company would. But you pay no monthly fees, no false alarm fees, and the police take you seriously when you really need them. It works, it's easy and it's inexpensive. Why wait another day to protect your family?



After playing your prerecorded message, the Console becomes a room monitor, allowing the person to listen in for clues to activity or even identities.



See Pages 106 & 107 for Our New Home Automation Kits

breaking your budget. No monthly fees. No wires. No strings.

Here's all you get for under \$200! Ten-piece home security alarm kit includes:

Security System Dial-Up Console & Transceiver
Plugs into any wall outlet and includes battery backup. Receives signals from your security keychain or home remote up to 100' away and sends commands to alarms, and lighting fixtures through your home wiring. Contains 85dB siren.

Security System Indoor Motion Sensor
Install indoors facing paths where an intruder would pass. Detects heat and motion and triggers the alarm.

Security Remote Control
Arms and disarms entire system or perimeter (door/window) sensors only. Disables active alarm, activates alarm with panic button. Turns up to four lights or groups of lights on or off. Works anywhere in the house, up to 100' from Console.

Blaster Siren
Screws into wall plug. Sounds a neighborhood-piercing, 110-decibel siren for 4 minutes or until deactivated.

Security Keychain Remote Control
Arms, disarms, disables active alarm, and activates alarm with panic button. Turns lights on or off.

Door/Window Sensors (2)
Triggers alarm when a door or window is opened.

Lamp Dimmer/Receiver
Allows you to control (on/off/dim) lamps manually or remotely. Plug controller into wall outlet; plug lamp into controller. 300W max.

Part No. **Price**
236486EA Complete Ten-Piece DIY Home Security Alarm System **\$199.99**

Part No.	Price
236486EA Home Security Alarm System	..... \$199.99

Add-On Components for Home Security Alarm System

Customize your security system to protect your entire home with these 100% compatible add-ons. You may use up to 16 combined door/window and motion sensors and up to 16 combined house or keychain remotes. Note: Security System sensors and remotes are not interchangeable with other system sensors and remotes offered in this catalog. The dimmer switches on pages 8, 9, 11 and 13 are the same for all systems.

Security Remote Control
Arms and disarms entire system or perimeter (door/window) sensors only. Disables active alarm, activates alarm with panic button. Turns up to four lights or groups of lights on or off. Works anywhere in the house, up to 100' from Console.

Part No.	1	4	8
236620EA	\$26.99	\$25.64	\$24.36

Security System Indoor Motion Sensor
Install indoors facing paths where an intruder would pass. Detects heat and motion and triggers the alarm.

Part No.	1	4	8
236638EA	\$49.99	\$47.49	\$45.12

Lamp Dimmer/Receiver
Allows you to control (on/off/dim) lamps manually or remotely. Plug controller into wall outlet; plug lamp into controller. 300W max.

Part No.	1	4	8
236591EA	\$14.99	\$14.24	\$13.53

Security Keychain Remote Control
Arms, disarms, disables active alarm, and activates alarm with panic button. Turns lights on or off.

Part No.	1	4	8
236646EA	\$19.99	\$18.99	\$17.99

Blaster Siren
Wireless, battery-operated alarm mounts outside up to 100' from Console. Sounds a neighborhood-piercing, 110-decibel siren for 4 minutes or until deactivated.

Part No.	1	4	8
235977EA	\$39.99	\$37.99	\$35.99

Door/Window Sensor
Triggers alarm when a door or window is opened.

Part No.	1	4	8
236005EA	\$19.99	\$18.99	\$17.99

Motion Sensor with 2 Floodlights
Mounts outside under eaves. Turns on floodlights and selected indoor lights either when motion is detected or at dusk.

Part No.	1	4	8
236611EA	\$59.99	\$56.99	\$54.14

Master Dimmer Switch/Receiver
Replaces standard, single-location incandescent light switch. Allows manual control of connected fixture, or responds to remote signal. 500W max.

Part No.	1	4	8
236574EA	\$19.99	\$18.99	\$17.99

Companion Dimmer Switch/Receiver
For incandescent lights controlled by two or more switches, order one Master Dimmer Switch (above), plus one Companion Switch for each additional switch location.

Part No.	1	4	8
236582EA	\$14.99	\$14.24	\$13.53

Control up to 16 cameras with one hand. Keep an eye on the kids, the pool, the front door, the babysitter, all at once.

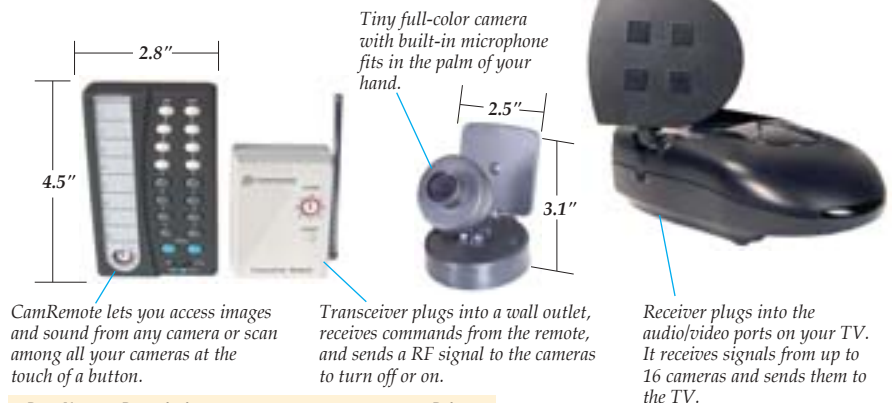
YOU'RE ALONE in the house on the computer. You've got the kids playing outside, the baby napping in the nursery, the hole-digging dog in the backyard, and now there's a knock at the front door. You can't be in ten places at once, but with our Surveillance Kit and Accessories, you can do the next best thing: from one location, you can see and hear exactly what's going on all around your home or office. And not just in ten places, but in up to sixteen areas as close as inside your home, or as far as 100' away.

Installs anywhere without wiring.

If you've seen surveillance cameras that were a hassle to install and awkward to monitor, wait until you see these. They're so compact, they're virtually unnoticeable. They require no wiring beyond plugging a cord into an electrical outlet; not even that with our battery pack. They use X10 radio frequency technology to send both audio and color video signals right through walls to your TV. And you can view the image from any camera, or scan up to 16 of them, with a single remote control.

Just place or screw-mount the cameras wherever you want them, and plug their power supply into an indoor or outdoor AC outlet. Use the supplied cable to connect the Audio/Video Receiver into your TV. Plug the transceiver

You get all this for just \$119.95.



Part No.	Description	Price
236494EA	Surveillance starter kit	\$119.99

into a wall outlet. Now you're ready to sit back and use the remote to view any or all surveyed areas. The remote automatically turns each camera on when you select it for viewing and turns it off when you switch to another camera.

Home security is just the beginning.

Put a camera on the front porch and see who's outside your door before you open it. Put one in the garage to protect your expensive power

tools. Put one in the backyard to keep an eye on your kids and pets. Put one by the pool to prevent accidents. Put one in the nursery to keep an eye on the baby. Place a camera to see who's coming up the driveway too. Use them at your small business to keep tabs on supply closets, inventory and other valuable assets.

Kit contains all you need to monitor one area.

Our four-piece Surveillance Kit gives you everything you need to monitor one area. It includes one wireless camera with power supply, one receiver which plugs into your TV's audio/video jacks, one CamRemote remote control, and one transceiver. To survey additional areas of your home, just add more cameras from the facing page—one receiver manages input from as many as 16 cameras.

Home video camera captures kidnapping, leads to safe release of young captive.

SAN JOSE, CA. — On June 6, 2003, a 9-year-old girl was violently kidnapped while her mother and brother were injured trying to save her. Much of the ordeal, including the behavior of the kidnapper just before the girl arrived home, was caught by a neighbor's video surveillance camera. The video made it clear to authorities the man was specifically targeting the girl, which allowed them to narrow their search. Three days later, the kidnapper, hounded by repeated broadcasts of the video and the knowledge that police were closing in on him, unexpectedly released the girl. The neighbor's home video camera probably saved her life.

See pages 106 & 107 for Our New Home Automation Kits

The signal travels up to 100' so you don't have to.

Place a camera facing your backyard and keep an eye on your children and your neighbor's children as they play.

The camera's radio frequency signals travel right through walls to the receiver. No wires needed.

Place a camera at the front door and see who's there before you answer.

Displays color images on any TV with audio and video input jacks.

A built-in microphone lets you hear as well as see what's taking place. Was that your baby crying? Take a look without walking down the hall.

Using the CamRemote, you can turn each camera on or off and view the still images on your TV from the comfort of your favorite chair.

Effortlessly monitor activities in and around your home to prevent accidents, break-ins, and to make sure your children are safe. Our wireless Surveillance Kit makes it easy. Just plug it into your TV, and scan the camera locations with the remote control.



Customize Your Surveillance System for Your Home

Our Starter Kit gives you the basics, but in order to keep tabs on all areas of your property, you'll probably need to survey more than one area. These accessories allow you to create a custom system designed for your home and your convenience.

Additional Camera

Place as many as 16 cameras around your home or office. They'll all work with your existing X-10 system's receiver and transceiver.

3.1"H. x 2.5"W. x 4"D.



Part No.	1	4	8
236662EA	\$69.99	\$66.49	\$63.17

Audio/Video Receiver

For each additional TV you'd like to use as a monitor, add one A/V Receiver. You'll probably want to add a CamRemote for each TV for convenience.

4.8"H. (deployed, as shown) x 3.8"W. x 6.1"D.



Part No.	1	4	8
236654EA	\$49.99	\$47.49	\$44.99

Additional CamRemote & Transceiver

Stash an additional CamRemote in every room with an A/V Receiver (above), and keep watching as you move around the house.

4.5"H. x 2.8"W. x 0.8"D.



Part No.	1	4	8
236726EA	\$29.99	\$28.49	\$26.99

Camera Battery Pack

Get up to 4 hours of cord-free power. Makes the Camera completely portable so you can monitor your teen's party in the basement tonight, and take it outside to the family picnic tomorrow. Connect the A/V Receiver to your VCR, and capture the memories. 1.7"H. x 3.5"W. x 3.7"D.



Part No.	1	4	8
236671EA	\$24.99	\$23.74	\$22.55

Didn't find what you are looking for here?
You'll find our entire line on our website.
Log on today! www.jameco.com

Deadly realistic digital guard dog sends prowlers packing.

HOME ALONE? A prowler has you marked as easy prey. But as he approaches—long before you would hear a sound—your trusty companion detects his presence and unleashes a torrent of deep-throated, flesh-ripping barks so frighteningly realistic, you may get sweaty palms yourself. The prowler? As far away as he can get.

Bruiser, the Barking Dog Alarm System makes it sound like you've got a huge, vicious guard dog just waiting to get loose. The digitally sampled and enhanced amplified recording sounds so authentic, anyone sneaking around outside would head for the hills.

Set up in 15 minutes—no wiring.

The system includes two battery-operated motion sensors, "Bruiser" (speaker/receiver), and a two-button keychain remote.

Mount the motion sensors outside or indoors, plug in Bruiser near a likely entry point and X10 technology does the rest. The instant either sensor detects movement and heat, it sends a radio frequency signal right through the walls to the Bruiser up to 100' away. Add switches/receivers (p. 11) or lamp dimmers (below), and those fixtures will light five seconds after the barking starts, just as if someone were up and investigating. For additional security, you can also turn the



Using X10 technology, this wireless system gives you the benefits of owning a deadly guard dog, with none of the hassles.



barking and the lights on or off from your remote.

Bruiser, the Barking Dog Alarm System

Includes barking dog alarm with volume control, two outdoor motion sensors, and one two-button keychain remote. Dog requires AC outlet and 9 "C" batteries (not included) for backup in case of a power failure.

Part No.	Price
235969EA Bruiser Alarm System	\$139.99

Bruiser Accessories

Customize your Bruiser Alarm System with these compatible accessories.

Note: The Bruiser sensors and remotes are not interchangeable with those used by the Home Security Alarm System.

Lamp Dimmer/Receiver

Allows you to control (on/off/dim) lamps manually or remotely. Plug controller into wall outlet; plug lamp into controller. 300W max.



Part No.	1	4	8
236591EA	\$14.99	\$14.24	\$13.53

Bruiser Outdoor Motion Sensor

Requires 4 AA batteries (not included).



Part No.	1	4	8
236806EA	\$29.99	\$28.49	\$26.99

Bruiser Keychain Remote

2-button remote controls barking dog and one other device.



Part No.	1	4	8
236558EA	\$19.99	\$18.99	\$17.99

Motion Sensor with 2 Floodlights

Mounts outside under eaves. Turns on floodlights and selected indoor lights when motion is detected or at dusk. Can trigger barking if desired.



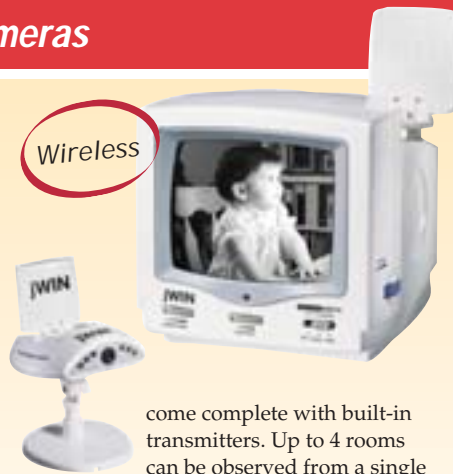
Part No.	1	4	8
236611EA	\$59.99	\$56.99	\$54.14

Hi-value, low cost 5" monitor system goes anywhere, sees everything, even in low light!

Our convenient low-priced wireless A/V monitoring system easily extends the reach of your eyes and ears to keep watch over your home or business. Just plug it in and you are ready to go. Pick up the lightweight monitor with its convenient handle and use battery power while you keep tabs on your domain anywhere within receiving range. Slide the camera's power switch into the "night" position and the infra-red LEDs allow you to see in very low light. The built-in RCA jacks allow you to run the signals directly into your VCR for true 24/7 security. The set comes complete with one camera and monitor.

Extra Eyes and Ears

Expand your video security system with up to three of our versatile add-on cameras which



Wireless

come complete with built-in transmitters. Up to 4 rooms can be observed from a single monitor. Easily switch between cameras with a four-step, 3 to 10 second auto-switching control. The camera's wide field of vision and flexible tilt-and-swivel mount make these black & white cameras a perfect addition to your monitoring set-up. Reliable 2.4 GHz technology transmits clear video and audio to your receiver and monitor.

Monitor Receiver Specifications:

- 5" black & white CRT screen with contrast, volume, and brightness controls
- Frequency: 2400-2483 MHz
- Sensitivity: -80 to ~ -85dBm
- Video output: 1Vpp, 75Ω
- Audio output: -8dBs, 47kΩ
- Horizontal resolution: 330 lines
- Automatic camera switching

Requirements:

12VDC @ 1A power supply (included) or 10 C size batteries (not included)

Camera Specifications:

- Transmit frequency: 2400-2483 MHz
- Modulation: FM
- Max frequency deviation: 20MHz
- Audio sub carrier frequency: 6.0-6.5 MHz
- Usable range: 50-100 meters
- Infrared detection range: 1-2 meters

Requirements: 12VDC @ 300mA power supply (included)

Part No.	Description	Price
235045EA	5" black & white monitor & camera	\$169.95
235053EA	Additional camera & transmitter	89.95

Black & White CCD Camera with 6" Monitor

Camera: EIA Format

- 512(H) x 492(V)
- 1/3" CCD image sensor
- 380 TV line resolution
- 6 IR LED light for view in the dark application
- 15.734kHz horizontal synch. frequency
- 2:1 interlace scanning system
- 1/100,000 second electronic shutter
- 3.6mm lens with F2.0
- S/N ratio: 48dB
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p, 50Ω maximum
- 0 lux at 2M
- BNC connector for video & RCA connector for audio
- Power supply: 12-15V @ 130mA
- FOV: 92°
- Size: 2.2"W x 2.8"D x 2.1"H

Includes: Camera bracket

Monitor: EIA Format

- 6" 2-channel flat screen monochrome monitor
- Vertical hold, brightness and contrast adjustment knobs at rear of monitor
- Size: 6.7"W x 7.2"D x 5.2"H
- Weight: 7.7 lbs.

Includes: 20M audio/video cable, manual and 15V @ 1A center positive power supply

Part No.	Description	1	10
170616EA	Camera w/ monitor	\$159.95	\$143.95



10" Black & White Security Monitor with Audio

- EIA format
- 9" viewable screen
- Resolution: 700 line
- Push down front panel for vertical size, brightness, volume, and contrast adjustments, power switch
- Horizontal frequency, focus and sub-brightness adjustment, impedance input switch, 1 BNC female & 1 RCA jack for audio/video input/output
- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
- Size: 9.3"W x 12"D x 9.1"H
- Weight: 15 lbs.

Includes: Manual

Part No.	Description	1	10
192719EA	10" black & white monitor ..	\$119.95	\$95.95



4" TFT LCD Monitor

NTSC Format

- TFT color LCD
- Resolution: 234 x 383dpi
- Backlight: cold cathode fluorescent lamp
- Power source: 12VDC @ 400mA
- 5' long lead wire with 4 position molex type power connector
- Tint color and brightness adjustable
- Size: 4.1"L x 3.3"W x 0.7"H (display)
- Size: 4.7"L x 3.3"W x 1.3"H (unit)
- Weight: 0.7 lbs.

Part No.	Description	1	10
172742EA	4" color LCD monitor	\$159.95	\$149.95



Over 99% of our products are in stock!

Place your order by 6PM EST for same business day shipment.

2.4GHz Wireless Fully Automatic Color CCD Camera

With AES/AI Video Drive

- Auto electronic shutter (AES): 1 to 1/100,000 sec.
- Auto iris (AI) control video drive switchable
- Color; NTSC format; 2.0 lux/F1.2
- 380 TV line resolution
- S/N ratio: more than 48dB
- Scanning system: 2:1 interlace
- 1/3" CCD interline sensor
- 512(H) x 492(V)
- Video output: 1Vp-p / 75Ω
- Impedance output: 75Ω typical
- LED power "ON" indicator at rear panel
- Size: 4.0"L x 2.2"W x 2.0"H
- Weight: 2.1 lbs.

Includes: 15VDC power supply, antenna, mounting bracket and manual

- 208645EA: Auto Iris Lens
- Auto iris direct drive
- FOV: 46°
- Aperture: ±4F = 1.4 ~ 64
- Use with receivers 169631EA or 192866EA (pg 16)

Part No.	Description	1	10
174810EA	Color camera Was \$264.95	\$171.85	\$156.25
208645EA	Auto Iris lens	69.95	69.95



SALE

174810EA:
Shown with Lens
P/N 208645EA
(not included)

Color Camera w/ Audio Microphone

NTSC Format

- Pick-up device: 1/4" CCD image sensor
- FOV: 92°
- Picture elements: 512(H) x 492(V) lines
- 330 TV line resolution
- Minimum illumination: 2 lux
- Horizontal sync. frequency: 15.734kHz
- Vertical frequency: 60Hz
- Scanning system: 2:1 interlace
- Video output: 1V p-p, 75Ω
- Audio output: 2V p-p max.
- Lens: 3.8mm/F2.0
- Size: 2.9"L x 2.1"W x 2.0"H
- Weight: 0.3 lbs.

Requires: 12V regulated power supply (recommend P/N 162996EA, see website)

Part No.	Description	1	10
169404EA	Enclosed with audio \$149.95	\$119.95	\$109.95



SALE

5.6" Color TFT Monitor

NTSC Format

- TFT color LCD display
- 224,640 pixel display resolution
- Built-in 1 watt speaker
- Brightness, color and volume adjustments
- Video input: 1.0Vp-p; 75Ω
- Audio input: 2Vp-p; 2kΩ
- Size: 6.1"W x 4.8"H x 1.2"D
- Weight: 2.6 lbs.

Includes: RCA cable, mounting stand with hardware and 12VDC @ 500mA power supply

Part No.	Description	1	10
201702EA	5.6" TFT color monitor	\$279.95	\$259.95



Affordable wireless full-color video monitoring!

Your own full-color indoor video monitoring/security system is only seconds away! The compact, wall-mountable camera transmits up to 150 feet on the reliable 2.4 GHz band for clear, convenient viewing on a standard TV or VCR. Set up is quick and easy. Simply mount the camera, choose day or night mode, adjust the manual focus, and apply power from the included A/C adaptor. Then choose a convenient spot for your monitoring station, hook up your TV or VCR, and you're ready to go. Plus, the expandable FM receiver comes ready to monitor up to 4 locations, by simply installing additional cameras. Complete monitoring package includes camera, receiver, remote control, power adapters and RCA cables.

- Output level: 1Vp-p
- Power requirements: 8VDC @ 400mA
- Weight: 3.0 lbs.

Wireless Receiver:

- Size: 4.1"W x 2.9"D x 1.0"H

Wireless Camera:

- Operating frequency: 2.414 to 2.468GHz
- FM audio/video modulation

Quick and easy set up at a fabulous price, it's the ideal solution for security monitoring.



- Video input level & impedance: 1Vp-p, 75Ω
- Audio input level & impedance: 1Vp-p, 600Ω
- Illumination: 0.5 lux
- Size: 5.5"W x 4.7"D x 4.7"H

Part No.	Description	Price
233375EA	2.4GHz wireless camera	\$69.95

Color Camera

- 1/3" Panasonic CCD image sensor
- Image size: 4.82mm (H) x 3.64mm (V)
- More than 380TV lines horizontal resolution
- FOV: 42.6°
- Scanning system: 2:1 interlace
- S/N ratio: more than 46dB
- BNC connector for video
- Video output: 1Vp-p; 75Ω
- 15.734kHz synchronous frequency
- Size: 4.0"L x 2.2"W x 2.0"H • Weight: 0.9 lbs.
- 171248EA: Color • 1.0 lux / F1.4
- 512(H) x 492(V) NTSC signal format
- Auto iris: DC driver / video driver switchable



171248EA

Requires: 12VDC @ 140mA power supply (recommend P/N 162996EA, see web)

- 208645EA: Auto Iris Lens • Auto iris direct drive
- Aperture: ±4F = 1.4 ~ 64 • FOV: 46°

Part No.	Description	1	10
171248EA	Color CCD camera	\$224.95	\$201.95
208645EA	Auto Iris lens	69.95	69.95

Night Vision Infrared Lighted Camera

EIA Format

- Adjustable camera lens
- Built-in voltage regulator
- 6 infrared LEDs for night vision
- Scanning system: 2:1 interlace
- Video output: 1Vp-p; 75Ω
- Auto iris controlled
- Horizontal sync. frequency: 15.734kHz
- Audio output: 2Vp-p max. • 380 TV line resolution
- FOV: 92° • Lens: 3.6mm • 0.1 lux with F2.0
- Matching conn.: RG59 BNC (P/N 71271EA, pg 87)
- Size: 2.9"L x 2.0"W x 2.0"H • Weight: 1.2 lbs.



Includes: 12VDC @ 500mA power supply and wall mounting bracket

Part No.	Description	1	10
150404EA	Infrared camera	\$119.95	\$109.95

Color Interline Camera

- EIA format
- FOV: 530
- 5 lux sensitivity
- 1/3" CMOS image sensor
- EIA format: 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- Video output: 1V p-p; 75Ω
- S/N ratio: 40dB
- Electronic shutter: 1/60 – 1/1,200 sec.
- Adjustable mounting bracket • 6mm lens/F2.0
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply • Size: 2.6"L x 0.9"Dia.



Water Resistant

Includes: Adjustable mounting bracket, instruction sheet and 9V @ 100mA power supply

Part No.	Description	1	10
185017EA	Color camera	\$99.95	\$89.95

Log onto our website for our complete selection of cameras and accessories!
www.Jameco.com



Mini Dome Color Camera

NTSC Format

- Perfect for ceilings
- 1/4" CCD image sensor
- 512(H) x 492(V)
- 330 horizontal line res.
- S/N ratio: 46dB • FOV: 92°
- 15.73kHz horizontal synchron. frequency
- Scanning system: 2:1 interlace • 2 lux/F2.0
- Up to 1/96,000 second electronic shutter
- 3.6mm lens with F2.0 • Video output: 1Vp-p, 75Ω
- Power supply: 12VDC @ 160mA (recommend P/N 162996EA, see web) • Size: 3.5"Dia. x 2.3"H



Includes: Mounting hardware

Part No.	Description	1	10
171037EA	Mini-dome camera	\$139.95	\$125.95

SONY® Color CCD Camera

Sony Chipset

- 1/4" Sony super HAD CCD sensor
- NTSC system with 510(H) x 492(V)
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Signal to noise ratio: >48dB • 330 TV lines
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Internal, negative synchronous system
- Video output: 1Vp-p; 75Ω



Requires: 12VDC @ 120mA power supply (recommend P/N 100095EA, see web)

Includes: Power/signal cable & mounting hardware

Part No.	Description	1	10
213436EA	Enclosed color camera	\$179.95	\$161.95

Mini Enclosed Color NTSC Camera

- 1/4" CCD sensor
- 350 horizontal TV lines
- Electronic shutter: up to 1/120,000 sec. • 1 lux/F2.0
- NTSC system with 512(H) x 492(V)
- Scanning system: 2:1 interlace
- Signal to noise ratio: 48dB • Lens: 3.7mm/F2.0
- Video output: 1Vp-p, 75Ω • FOV: 92°
- Size: (enclosure) 1.3"L x 1.1"W x 0.9"D



Requires: 9VDC – 12VDC @ 500mA power supply (recommend P/N 100853EA, pg 39)

Includes: BNC/Power cable and mounting hardware

Part No.	Description	1	10
215423EA	Mini enclosed camera	\$129.95	\$119.95

PANAVISE

12 Version Camera Mounting Kit

A unique component system allows you to build one of twelve versions for today's smaller cameras. Quality ball housing provides 120° tilt and 360° camera rotation. Shafts are 1/2" dia. Vinyl cover adds a finished and professional look.

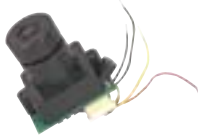
- Wall ceiling and T-Bar clip mounting
- Shafts: 2" (50.8mm), 4" (101.6mm) or 6" (152.4mm) long
- Knob & set screw adjustment CCTV mounts

Part No.	Product No.	Description	Price
224354EA	845-246	CCTV mounting kit	\$16.95
224389EA	860	Tri-foot base	7.49
224371EA	861	Square base	6.29
224362EA	862W	J-Box plate	8.95



Color Camera Board**NTSC Format**

- 5.0 lux • FOV: 92°
- 330 TV lines
- 3.6mm lens/F2.0
- 1/3" CCD image sensor
- Low power consumption
- Automatic exposure, gain and white balance
- Size: 1.0"L x 0.9"W x 1.1"H



Part No.	Description	1	10
171011EA	Camera board	\$73.95	\$66.59

**4-Channel 2.4GHz Wireless
Audio/Video Receiver and
10mW Transmitter**
Make your camera wireless up to 492 feet!

- Transmission range: 492' (150M outdoors); 164' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power (transmitter): 10mW
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.
- RCA jacks for audio and video connectors

**Receiver:**

- Video loss detection and freeze channel
- Non-volatile memory protects system set-up from power loss
- Mute and alarm trigger port
- Size: (transmitter) 4.5"L x 3.2"W x 1.0"H
- Size: (receiver) 6.5"L x 5.5"W x 1.4"H
- Weight: 1.8 lbs.

Includes: RCA cable, 12VDC@500mA adapter, RCA to F connector adapter (receiver unit only)

Part No.	Description	1	10
192858EA	4-channel transmitter	\$89.95	\$79.95
192866EA	4-channel receiver	124.95	112.95

SONY®
**Black & White
Low-Light Camera**
Sony Chipset

- Signal to noise ratio: >48dB
- Requires 12V power source (not included)
- 6" wires with 4-pin Molex-type keyed connector
- EIA system 537(H) x 505(V)
- Composite output with 420 line resolution • Lens: 3.6mm
- Shutter speed: 1/60 - 1/1000 • FOV: 92.6°
- Video output: 1.0Vpp composite video/75Ω
- Size: 1.3"L x 1.3"W x 1.0"H • One-year warranty



Part No.	Description	1	10	25
150931EA	Camera board	\$89.95	\$80.95	\$71.95
159071EA	8mm lens 38.6"	17.95	17.10	16.25

Black & White Camera**EIA Format**

- 510(H) x 492(V)
- S/N ratio: 46dB
- 1/3" CCD image sensor
- Horizontal resolution: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- Video output: 1Vp-p, composite video 75Ω
- Power supply: 12VDC (recommend P/N 162996EA, see web) • Size: 1.3"L x 1.3"W x 1.2"H
- Power consumption: 110mA • FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)

SALE

Part No.	Description	1	10
171029EA	Camera board	\$44.95	\$40.45

Audio/Video Adapters (CAT 5 UTP)

- Converts impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Supports both NTSC or PAL video signals
- Built-in impedance matching device and filter for video and audio signal transmission
- Use with existing premises wiring and wall jacks for easy and cost effective installation
- Video transmission distance: 1000' color/2000' B/W
- 210471EA: Signal pair: video (BNC), CAT pair 1 (RJ45)
- 220880EA: Signal pairs: video (BNC), CAT pair 4 (RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)



Includes: 1 RCA to BNC adapter & 2 mounting screws

Part No.	Connector Type	1	10
210471EA	BNC/RJ45	\$29.95	\$26.95
220880EA	BNC/RCA/RJ45	42.95	38.95

2.4GHz SMA RF Antenna

- For use with 2.4GHz cameras, transmitters, and receivers
- Gain: 3dB • SMA male • Size: 3.6"L

Part No.	Description	1	10
179864EA	2.4GHz antenna	\$15.95	\$14.35



*Look through our
catalog for our latest
Jameco @ Home Products*

**Mount your video camera
almost anywhere**

As steady as a tripod, the Window Camera Mount lets you anchor that video camera to any glass surface at any height.

Mount your video or CCTV camera on any window or other non-porous surface, and capture what you've never been able to before. This heavy-duty metal mounting bracket attaches securely to any glass surface with a strong lever-activated 3.25" neoprene suction cup. Mount your camera onto the tripod-style screw. Adjust to any position, and you're ready to shoot hands-free. It's perfect for temporary surveillance of your business or home. For cameras up to 3 lbs.



Mounts easily to your car window

Part No.	Description	1	5
222746EA	CCTV camera window mount	\$39.95	\$34.95

Mini Indoor Pan & Tilt Mechanism**Continuous Pan**

- Automatic scanning: 0° - 355 angular travel; pan clockwise and counter-clockwise
- Manual tilt: 0° - 90°
- Pan speed: 5°/sec.
- Maximum load: 4.4 lbs.
- Power consumption: 1 Watt
- Size: 2.5"Dia. x 2.4" H
- Warranty: 2 years continuous use • Wt.: 0.4 lbs.



Camera not included

Includes: 24V @ 150mA power supply, wall mount bracket and mounting hardware

Part No.	Description	1	10
215407EA	Mini pan/tilt	\$49.95	\$44.95

Video Text Display Module**NTSC composite (1Vp-p, 75Ω)**

- Serial data input: 2400-19.2kbps
- 30-pin SIMM form factor (socket supplied)
- Compatible with Parallax Basic Stamp®, see pg 100
- Auto-switching genlock overlay or internal video generation • 12 x 18 pixel character pattern
- Power supply: +8-16VDC @ 65mA input, 5VDC aux. output (regulated) • Size: 3.5"L x 1.1"H
- Displays up to 308 characters (11 lines of 28)
- Asynchronous serial input only @ 9600bps



Part No.	Mfr. Cross Ref. No.	1	10	25
162051EA	BOBII	\$69.95	\$62.95	\$56.65

SMK RF Modulator

- Output frequency: NTSC Ch. 3/4, switch selectable
- Operating voltage: 12V@ 50mA max.
- 12VDC RF modulator
- RF output impedance: 75Ω (F-type connector) • Video modulation: 1.0V p-p
- Audio FM deviation: 1.4V p-p
- PC connections: solder tab connectors
- MFG. #: WMN2144-01



Part No.	Size (LxWxH)	1	10
141639EA	1.7" x 1.7" x 0.7"	\$4.95	\$4.29

SALE

Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

EPROM

38 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
40002EA	2716	24	2k x 8 16kB 450ns (25V)	\$3.99	\$3.59
40011EA	2716-1	24	2k x 8 16kB 350ns (25V)	6.49	5.89
39706EA	27C16	24	2k x 8 16kB 450ns (25V) CMOS	7.25	6.55
114876EA	2732B	24	4k x 8 32kB 450ns (12.5V)	4.15	3.75
33591EA	TMS2532A	24	4k x 8 32kB 450ns (21V)	3.95	3.55
40096EA	2732	24	4k x 8 32kB 450ns (25V)	6.49	5.49
40133EA	2732A-45	24	4k x 8 32kB 450ns (21V)	3.99	3.69
39765EA	27C32	24	4k x 8 32kB 450ns (25V) CMOS	5.49	4.15
40125EA	2732A-25	24	4k x 8 32kB 250ns (21V)	4.99	4.49
40109EA	2732A-20	24	4k x 8 32kB 200ns (21V)	6.49	5.99
40192EA	2764-20	28	8k x 8 64kB 200ns (21V)	5.25	4.75
40230EA	2764A-20	28	8k x 8 64kB 200ns (12.5V)	4.49	4.05
40248EA	2764A-25	28	8k x 8 64kB 250ns (12.5V)	3.49	3.15
105304EA	27C64-12	28	8k x 8 64kB 120ns (12.5V) CMOS	6.49	5.99
39829EA	27C64-15	28	8k x 8 64kB 150ns (12.5V) CMOS	3.79	3.49
74608EA	27C64-20	28	8k x 8 64kB 200ns (12.5V) CMOS	3.79	3.19
39933EA	27128-25	28	16k x 8 128kB 250ns (21V)	5.95	5.09
87935EA	27C128-12	28	16k x 8 128kB 120ns (12.5V) CMOS	4.49	3.99
39677EA	27C128-15	28	16k x 8 128kB 150ns (12.5V) CMOS	4.29	3.85
40037EA	27256-15	28	32k x 8 256kB 150ns (12.5V)	3.25	3.09
140476EA	27C256-70	28	32k x 8 256kB 70ns (12.5V) CMOS	3.59	3.39
112740EA	27C256-10	28	32k x 8 256kB 100ns (12.5V) CMOS	3.19	2.59
65904EA	27C256-12	28	32k x 8 256kB 120ns (12.5V) CMOS	2.05	1.90
39714EA	27C256-15	28	32k x 8 256kB 150ns (12.5V) CMOS	2.05	1.75
40168EA	27512-25	28	64k x 8 512kB 250ns (12.5V)	3.79	3.45
203617EA	27C512-45	28	64k x 8 512kB 45ns (12.5V) CMOS	4.09	3.79
203625EA	27C512-70	28	64k x 8 512kB 70ns (12.5V) CMOS	2.89	2.49
175206EA	27C512-90	28	64k x 8 512kB 90ns (12.5V) CMOS	2.69	2.29
118148EA	27C1024-15	40	64k x 16 1024kB 150ns (12.5V) CMOS	5.69	5.25
39651EA	27C010-15	32	128k x 8 1024kB 150ns (12.5V) CMOS	2.59	2.19
39669EA	27C010-20	32	128k x 8 1024kB 200ns (12.5V) CMOS	2.39	2.29
78852EA	27C020-12	32	256k x 8 2048kB 120ns (12.5V) CMOS	5.29	4.89
65699EA	27C020-15	32	256k x 8 2048kB 150ns (12.5V) CMOS	5.29	4.99
127933EA	27C4096-12	40	256k x 16 4096kB 120ns (12.5V) CMOS	9.22	8.60
111780EA	27C040-10	32	512k x 8 4096kB 100ns (12.5V) CMOS	6.92	6.41
102293EA	27C040-12	32	512k x 8 4096kB 120ns (12.5V) CMOS	6.59	6.09
203668EA	27C040-45	32	512k x 8 4096kB 45ns (12.5V) CMOS	12.65	10.75
203684EA	27C080-90	32	1M x 8 8192kB 90ns (12.5V) CMOS	12.91	11.99
156275EA	27C080-10	32	1M x 8 8192kB 100ns (12.5V) CMOS	12.91	10.97
140003EA	27C080-12	32	1M x 8 8192kB 120ns (12.5V) CMOS	12.99	11.99
156283EA	27C160-10	42	2M x 8 16384kB 100ns (12.5V) CMOS	20.45	18.95

See EPROM programmers on page 51

EPROM Accessories

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Description	1	10
66042EA	DE1	UVP portable EPROM eraser, pg 51	\$64.95	\$58.95
15712EA	DE4	8-chip UV-EPROM eraser, pg 51	109.95	104.95

EEPROM

13 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
108847EA	24C04P	8	512 x 8 4096-bit serial (CMOS)	\$8.99	\$7.99
74691EA	28C16A-25	24	2k x 8 16k 250ns (5V) CMOS	3.99	3.69
200580EA	24C256-10	8	32k x 8 256k serial (CMOS)	3.59	2.35
74843EA	28C256-15	28	32k x 8 256k 150ns CMOS	8.95	6.95
74827EA	28C64A-25	28	8k x 8 64k 250ns (5V) CMOS	4.49	4.05
74878EA	28C256-25	28	32k x 8 256k 250ns CMOS	8.75	7.45

PROM

12 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
27781EA	N82S129	16	256 x 4 1024-bit PROM tri-state (27S21)	\$7.95	\$6.95
27801EA	N82S137	18	1024 x 4 4096-bit PROM tri-state (27S33)	4.95	4.25
48717EA	74S288	16	32 x 8 Tri-state (27S19/TBP18S030N)	3.45	2.95

Flash Memory

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
74771EA	28F010-15	32	128k x 8 150ns (12V) CMOS	\$6.95	\$6.25
74835EA	28F020-15	32	256k x 8 150ns (12V) CMOS	7.95	7.15

Dynamic Video RAM

8 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
41339EA	4116-15	16	16k x 1 150ns (MM5290J-1R)	\$.99	\$.89
128688EA	HM514260	SOJ	256k x 16 70ns	3.39	2.89

Static RAM

17 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
114286EA	DS1225AD-150	28	— 64k nonvol., 4.37V WP	\$11.95	\$10.95
114323EA	DS1230Y-150	28	— 256k nonvol., 4.37V WP	19.95	18.95
38957EA	2114N	18	1k x 4 450ns (9114BPC)	2.25	1.99
38973EA	2114N-2	18	1k x 4 200ns (9114EPC) (U214D20)	2.49	2.25
38981EA	2114N-2L	18	1k x 4 200ns low power	2.49	2.25
42198EA	5101	22	256 x 4 450ns (CMOS)	7.99	7.19
42921EA	6264P-10	28	8k x 8 100ns (64kB) CMOS	2.59	2.29
42930EA	6264P-12	28	8k x 8 120ns (64kB) CMOS	2.65	2.39
85121EA	6264LP-70	28	8k x 8 70ns (64kB) LP CMOS	3.39	2.99
42884EA	6264LP-10	28	8k x 8 100ns (64kB) LP CMOS	2.75	2.49
42892EA	6264LP-12	28	8k x 8 120ns (64kB) LP CMOS	2.79	2.49
82472EA	62256LP-70	28	32k x 8 70ns low power CMOS	5.49	4.99
42833EA	62256LP-10	28	32k x 8 100ns low power CMOS	4.35	3.95
42850EA	62256LP-12	28	32k x 8 120ns low power CMOS	3.85	3.49
75037EA	ATT7C199P-15	28	32k x 8 15ns high speed CMOS (.3W)	3.39	2.99
131810EA	628128LP-70	32	128k x 8 70ns low power CMOS	8.95	7.79
157358EA	628512LP-70	32	512k x 8 70ns low power CMOS	19.99	17.99

⌘ Pull



Voice Chips

More @ www.Jameco.com/IC

Single-Chip Voice Record/Playback Devices

10 to 120 Second Durations (28-pin DIP)

- On-chip clock source
- Easy-to-use single-chip voice recording and playback
- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Fully addressable to handle multiple messages
- Zero-power message storage – eliminates battery backup circuits
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Automatic power-down (push-button mode)
- 100k record cycles (typical)
- Playback can be edge or level-activated
- 1 µA standby current (typical)
- 100-year message retention (typical)
- On-chip automatic gain control (AGC)



107334EA

Part No.	Product No.	Description	1	10
141671EA	ISD1110P	Voice record/playback (10 sec.)	\$4.29	\$3.99
107334EA	ISD1420P	Voice record/playback (20 sec.)	5.39	5.09
120643EA	ISD2560	Voice record/playback (60 sec.)	9.19	8.59
120660EA	ISD2590	Voice record/playback (90 sec.)	9.29	8.69
141655EA	ISD25120P	Voice record/playback (120 sec.)	9.39	8.79

CPUs/MPUs

4 more @ www.Jameco.com/IC

Part No.	Description	MHz	Socket	1	10
118421EA	486 speed doubler (Intel), 80486DX2	66	168/PGA	\$19.95	\$17.95
130833EA	Pentium® processor	133	296/PGA	16.75	15.19
130841EA	Pentium® processor	166	296/PGA	26.69	24.25
140054EA	Pentium MMX® processor	200	376/PGA	23.35	21.25
150501EA	Pentium MMX® processor	233	376/PGA	69.95	62.95
190060EA	Pentium® II processor with heat sink	233	Slot 1	89.95	79.95
151651EA	Pentium® II processor	300	Slot 1	109.99	99.99
183100EA	Pentium® II processor	400	Slot 1	124.99	109.99
192751EA	Athlon, A0750MPR24B	750	Slot A	Was \$64.95	60.29 54.80
183118EA	Pentium® III processor	600	Slot 1	159.95	153.79

⌘ Pull

Hundreds of ICs located on our website. Log on today @ www.Jameco.com

Call for pricing on quantities over 100 – we carry major manufacturers.

We will special order any IC – 100 Piece Minimum

780 Series

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	MHz	Description	1	10
35561EA	Z80 ☼	40	2.5	CPU (MK3880N/780C)	\$1.39	\$1.19
35596EA	Z80A ☼	40	4	CPU (MK3880N-4/780C-1)	1.99	1.79
35781EA	Z84C00-4	40	4	CPU (Z84C0004PEC) CMOS	4.15	3.49
☼ Pull						

UARTs

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
27596EA	NS16550AN ☼	40	Univ. asynch. rcvr./trans. w/ FIFO (PC16550DN)	\$5.89	\$4.49
☼ Pull					

6500 Series

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
43191EA	6502	40	MPU with internal clock (1MHz)	\$7.95	\$6.95
43166EA	65C02 ☼	40	MPU with internal clock (CMOS)	6.95	5.25
43254EA	6522 ☼	40	VIA (versatile interface adapter) 1MHz	2.39	2.15
☼ Pull					

6800/68000 Series

11 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
43481EA	6800 ☼	40	8-bit MCU	\$6.95	\$5.25
43502EA	6802	40	8-bit MCU with clock and RAM (1MHz)	8.50	7.65
43596EA	6821 ☼	40	Peripheral interface adapter (1MHz)	3.95	3.59
43414EA	68B21 ☼	40	Peripheral interface adapter (2MHz)	4.95	4.49
43633EA	6850 ☼	24	Asynch. comm. int. adapter (ACIA)	2.39	2.09
25363EA	MC68705P3S	28	8-bit EPROM MPU w/ 112B RAM & I/O	24.95	22.95
191863EA	MC68HC11E1CP2	48	8-bit micro cntl. w/ A/D conv. (512B RAM)	15.95	12.95
132484EA	MC68HC705C8S	40	8-bit HCMOS MCU, 8k bytes, EPROM	38.95	34.95
☼ Pull					

8000 Series

38 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
51844EA	8031 ☼	40	CPU with 128 x 8 RAM and I/O	\$3.29	\$2.99
102197EA	8032	40	8-bit MCU 256 x 8 RAM	3.95	3.59
51991EA	8051AP** ☼	40	MCU w/ 128x8 RAM (book P/N 161402EA, pg 43)	5.49	4.99
125647EA	80C52BASIC	40	CPU 8-bit CMOS with basic interpreter	29.99	23.99
51705EA	80C85	40	CPU 8-bit N-channel (3MHz)(CMOS)	6.95	5.95
52062EA	8085A	40	CPU 8-bit N-channel (3MHz)	4.99	4.25
52290EA	8155	40	HMOs RAM I/O port/timer (3MHz)	4.49	3.39
52468EA	8212	24	8-bit input/output (74S412)	6.49	5.99
52652EA	8251A	28	Prog. comm. interface (USART)	3.99	3.69
52142EA	8088 ☼	40	CPU 16-bit (8-bit data bus) 5MHz	2.49	2.25
52708EA	8254 ☼	24	Prog. interval timer (UPD71054)	4.49	3.99
52716EA	8254-2	24	Prog. interval timer (10MHz)	7.35	6.65
52409EA	82C54-2	24	Prog. interval timer (CMOS) 10MHz	4.49	3.85
52724EA	8255 ☼	40	Prog. peripheral I/O (PPI) 71055 (2MHz)	4.49	3.99
52732EA	8255A-5 ☼	40	Prog. peripheral I/O (PPI) 5MHz	4.89	4.39
52370EA	82C51A	28	Prog. comm. interface (USART) CMOS	4.49	3.99
52417EA	82C55A	40	Prog. peripheral I/O (PPI) CMOS	4.99	4.49
52425EA	82C55A-5	40	Prog. peripheral I/O (PPI) CMOS (5MHz)	4.49	3.99
52759EA	8256 ☼	40	Multif. universal asynch. rec./trans.	19.99	17.99
52839EA	8279	40	Prog. keyboard/display interface	12.99	11.99
52871EA	8284A ☼	18	Clock gen. and driver (UPD71084)	4.49	3.99
53057EA	8749H	40	MPU 8-bit (EPROM version 8049)	22.99	19.99
53081EA	8751H	40	CPU w/ 4Kx8 EPROM & 128x8 RAM (1.2-12MHz) ...	28.49	24.25
52978EA	87C51	40	CPU w/ 4Kx8 EPROM & 128x8 RAM(3.5-12MHz) ...	21.99	18.69
53090EA	8755	40	16k EPROM with I/O	8.95	8.09

** Tie pin 31 low to bypass the internal ROM ☼ Pull

IC Test Clip Series

- For temporary connections to DIP package components
- Heavy-duty spring loaded hinge provides positive contact
- 20 AWG insulated gold contacts • Color: white



22103EA

Part No.	Cross Ref.	Description	1	10
22103EA	JTC16	16-pin (for 8, 14 and 16-pin ICs)	\$6.95	\$6.25
22120EA	JTC20	20-pin (for 18 and 20-pin ICs)	8.95	6.50
22162EA	JTC28	28-pin	10.95	9.95



CMOS PIC Microcontrollers

24 more @
www.Jameco.com/IC

Part No.	Product No.	Pins	Speed Conf. (MHz)	EPROM Bits	RAM Bytes	I/O Lines	1	10
145040EA	PIC12C508-04/P	8	OTP	4	512 x 12	25	5	\$1.49 \$0.99
144258EA	PIC12C509-04/P	8	OTP	4	1k x 12	41	5	1.49 1.19
193383EA	PIC16C622A-04/P	18	OTP	4	2k x 14	128	13	2.69 2.59
134172EA	PIC16C56-RC/P	18	OTP	20	1k x 12	25	12	4.49 3.29
193359EA	PIC16C711-04/P	18	OTP	4	1k x 14	68	13	3.89 2.29
193439EA	PIC16F627-20/P	18	Flash	20	1k x 14	224	16	3.25 2.95
193447EA	PIC16F628-20/P	18	Flash	20	2k x 14	224	16	3.69 2.99
193391EA	PIC16F73-I/SP	28	Flash	20	4k x 13	192	5	5.09 4.72
145111EA	PIC16F84-04/P	18	Flash	4	1k x 14	68	13	6.49 4.29
145120EA	PIC16F84-10/P	18	Flash	10	1k x 14	68	13	6.99 6.39
193332EA	PIC16F84A-20/P	18	Flash	20	1k x 14	68	13	5.69 5.29
193367EA	PIC16F876-20/SP	28	Flash	20	256 x 8	368	22	7.99 7.29
176882EA	PIC16F877-20/P	40	Flash	20	256 x 8	368	33	7.69 5.29



AT89C Series

More @ www.Jameco.com/IC

Part No.	Product No.	Pins	Description	1	10
168874EA	AT89C2051-24PC	20	8-bit MCU, 24MHz 2kb flash mem.	\$2.99	\$2.49
204089EA	AT89C4051-24PC	20	8-bit MCU, 24MHz 4kb flash mem. 8-bit	3.69	2.99
168903EA	AT89C51-24PC	40	8-bit MCU, 24MHz 4kb flash memory	4.49	3.59
168920EA	AT89C52-24PC	40	8-bit MCU, 24MHz 8kb flash mem.	3.59	2.89
168938EA	AT89C52-24JC	44	8-bit MCU, 24MHz 8kb flash PLCC	3.59	2.89
204097EA	AT89S8252-24PC	40	8-bit MCU, 24MHz 8kb flash mem. 2kb EEPROM	5.89	4.49
204100EA	AT90S1200-12PC	20	20 AVR 8-bit RISC MCU, 12MHz 1kb prog. flash	2.29	1.99
204126EA	AT90S8515-8PC	40	40 AVR 8-bit RISC MCU, 8MHz 8kb prog. flash	7.35	5.55

Stamp Microcontrollers

80C52-BASIC Microcontroller

The 80C52-BASIC chip is a custom-masked 80C52 microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter.

Hardware: • On-chip oscillator and clock circuit

• Operates DC to 12MHz • 256 x 8-bit RAM

Software: • Full BASIC interpreter in ROM on a single chip

• "Stand-alone" software development

• Interrupts can be handled by BASIC or Assembly Language



Part No.	Product No.	Description	1	10
125647EA	80C52BASIC	CPU 8-bit CMOS w/ BASIC interpreter	\$29.99	\$23.99

GALS

8 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
38666EA	20V8-25**	24	25ns 64 x 40 AND array	\$1.75	\$1.59
39167EA	22V10-25	24	25ns 132 x 44 AND array lattice	3.99	3.49

4000 Series

31 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
12562EA	CD4001**	14	Quad 2-input NOR gate	\$0.29	\$0.24
12634EA	CD4011**	14	Quad 2-input NAND gate .....	.29	.24
12677EA	CD4013**	14	Dual D flip-flop with set/reset Was \$0.39	.35	.25
12706EA	CD4015*	16	Dual 4-stage static shift register .....	.39	.35
12722EA	CD4016*	14	Quad bilateral switch .....	.29	.24
12749EA	CD4017*	16	Decade counter/divider .....	.39	.35
12802EA	CD4020*	16	14-stage binary/ripple counter .....	.49	.39
12845EA	CD4023*	14	Triple 3-input NAND gate .....	.29	.25
12853EA	CD4024*	14	7-stage binary counter	Was \$0.39	.35 .29
12950EA	CD4040*	16	12-stage binary/ripple counter Was \$0.39	.35	.29
13055EA	CD4049**	16	Hex/buffer/converter (inverting) .....	.29	.24

*10 pieces in CD4000 kit (below) **20 pieces in CD4000 kit (below)

4000 Series IC Cabinet Kit

Get a total of 300 pieces comprised of 25 different ICs and save big! Includes 20-drawer component cabinet with drawers dividers and adhesive labels for labeling.

SAVE
\$29

Part No.	Description	See page 41 for kit details	1	10
84970EA	300 pc. CD4000 series IC cabinet kit (Some of 25 types noted by ***)		\$79.95	\$71.95
130403EA	Refill for 84970EA (300 pcs.)		58.95	52.95

Call for pricing on quantities over 100 – we carry major manufacturers.

We will special order any IC – 100 Piece Minimum

4000 Series (continued)

31 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
13071EA	CD4050*	16	Hex/buffer/converter (N-inverting)	\$.29	\$.25
13098EA	CD4051*	16	Single 8-channel multi./demultiplexer .....	.45	.39
13127EA	CD4053	16	Triple 2-channel multi./demultiplexer .....	.39	.29
13186EA	CD4066**	14	Quad bilateral switch .....	.35	.25
13231EA	CD4069*	14	Hex inverter (74C04) .....	.29	.25
13258EA	CD4070*	14	Quad EXCLUSIVE-OR gate (74C86) .....	.29	.26
13354EA	CD4081*	14	Quad 2-input AND gate .....	.29	.25
13400EA	CD4093*	14	Quad 2-input NAND Schmitt trigger .....	.29	.25
13493EA	CD4511*	16	BCD to 7-seg. latch/decoder/driver .....	.69	.59
13581EA	CD4520	16	Dual binary up counter	Was \$0.49	.45
13611EA	CD4528	16	Dual monostable multivibrator .....	.69	.49
13653EA	CD4538*	16	Dual precision monostable multivibrator .....	.59	.49
13696EA	CD4543*	16	BCD to 7-segment decoder (LCD) .....	.59	.45
13709CA	CD4553	16	3-digit BCD counter	2.95	2.75

*10 pieces in CD4000 kit, previous page

**20 pieces in CD4000 kit, previous page

7400 Series

26 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
48979EA	7400**	14	Quad 2-input NAND gate	\$.65	\$.55
49015EA	7402*	14	Quad 2-input NOR gate .....	.59	.49
49040EA	7404**	14	Hex inverter .....	.59	.49
49120EA	7407**	14	Hex buffer/driver (O.C.) .....	.35	.32
49146EA	7408*	14	Quad 2-input AND gate .....	.82	.63
49728EA	7417*	14	Hex buffer/driver (O.C. hi-voltage) .....	.79	.67
50235EA	7432*	14	Quad 2-input OR gate .....	.59	.49
50403EA	7445	16	BCD-to-decimal decoder/driver (30V) .....	.89	.79
50420EA	7447*	16	BCD-to-7 segment decoder/driver (15V)	1.49	1.29
50577EA	7475	16	4-bit bi-stable latch	2.95	2.75
50593EA	7476	16	Dual JK flip-flop with preset & clear .....	.89	.73
50631EA	7483	16	4-bit binary full adder .....	.89	.79
50665EA	7486	14	Quad EXCLUSIVE-OR gate .....	.89	.75
50681EA	7489	16	64-bit RAM P 50ns	3.49	3.19
50690EA	7490	14	Decade counter	1.49	1.15
50745EA	7493	14	4-bit binary counter	1.49	1.34
49509EA	74150	24	16 to 1 line multiplexer	1.95	1.75
49883EA	74189	16	64-bit RAM tri-state (DM8599N)	3.99	3.39
49912EA	74192	16	Decade up/down counter with clear	3.69	3.39
88225EA	SDDL001A	—	Texas Instruments TTL Data Book	34.95	31.49

*10 pieces included in 7400 kit, pg 41

**20 pieces included in 7400 kit, pg 41

74AC Series

36 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
238887EA	74AC10	14	Triple 3-input NAND gate	\$.20	\$.19
238836EA	74AC20	14	4-input NAND gate .....	.41	.36
238730EA	74AC139	16	Dual 1 of 4 decoder/demultiplexer .....	.55	.42
238748EA	74AC151	16	8-input multiplexer .....	.49	.42
238844EA	74AC241	20	Octal buffer/line driver w/ 3-state outputs .....	.44	.36
238879EA	74AC257	16	Quad 2-input multiplexer .....	.40	.35

74ACT Series

29 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
239046EA	74ACT10	14	Triple 3-input NAND gate	\$.21	\$.20
239011EA	74ACT139	16	Dual 1 of 4 decoder/demultiplexer .....	.40	.33
239020EA	74ACT151	16	8-input multiplexer .....	.55	.42
239097EA	74ACT241	20	Octal buffer/line driver with 3-state outputs .....	.44	.36

74C Series

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
44222EA	74C00	14	Quad 2-input NAND gate	\$.79	\$.59
44231EA	74C04	14	Hex inverter (CD4069) .....	.79	.59
44564EA	74C922	18	16-key keyboard encoder (INS8245N)	6.29	5.05
44572EA	74C923	20	20-key keyboard encoder (INS8246N)	5.99	4.95

74HC Series

36 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
45161EA	74HC00	14	Quad 2-input NAND gate (6231581)	\$.29	\$.19
45188EA	74HC02	14	Quad 2-input NOR gate .....	.29	.15
45209EA	74HC04	14	Hex inverter (buffered) .....	.25	.22
45364EA	74HC14	14	Hex inverter Schmitt trigger .....	.22	.19
45794EA	74HC32	14	Quad 2-input OR gate .....	.29	.17
46130EA	74HC74	14	Dual D flip-flop .....	.35	.32
45330EA	74HC138	16	3-to-8 decoder/demultiplexer .....	.35	.29
45541EA	74HC192	16	Decade up/down counter with clear	1.59	1.45
45612EA	74HC240	20	Octal inverting line driver tri-state .....	.37	.30
45655EA	74HC244	20	Octal driver tri-state .....	.45	.39
45831EA	74HC373	20	Octal D-type flip-flop tri-state .....	.45	.39
45858EA	74HC374	20	Octal D-type flip-flop edge-trig tri-state .....	.49	.39
46050EA	74HC541	20	Octal buffer/line driver tri-state .....	.34	.28
46084EA	74HC574	20	Octal D-type flip-flop tri-state .....	.39	.35
46105EA	74HC595	16	8-bit serial-to-parallel shift reg. tri-state .....	.62	.44

74HCT Series

More @ www.Jameco.com/IC

* Prepackaged: order in increments of 10

Part No.	Cross Ref.	Pins	Description	1	10
44871EA	74HCT00	14	Quad 2-input NAND gate (Y560820T)	\$.26	\$.11
44898EA	74HCT04	14	Hex inverter .....	.20	.17
44901EA	74HCT08	14	Quad 2-input AND gate .....	.26	.12
44935EA	74HCT14	14	Hex inverter Schmitt trigger .....	.20	.19
45057EA	74HCT32	14	Quad 2-input OR gate .....	.21	.18
45137EA	74HCT74	14	Dual D flip-flop	*	.12
44927EA	74HCT138	16	3-to-8 decoder/demultiplexer .....	.21	.17
63773EA	74HCT139	16	2-to-4 decoder/demultiplexer .....	.29	.25
88057EA	74HCT154	24	4-to-16 decoder/demultiplexer .....	.49	.44
45014EA	74HCT240	20	Octal inverting line driver tri-state .....	.21	.18
45022EA	74HCT244	20	Octal driver tri-state .....	.20	.19
45031EA	74HCT245	20	Octal transceiver tri-state .....	.31	.26
45049EA	74HCT273	20	Octal D-type flip-flop with clear .....	.30	.26
45065EA	74HCT373	20	Octal D-type flip-flop tri-state .....	.26	.25
45073EA	74HCT374	20	Octal D-type flip-flop edge-trig. TS .....	.42	.34
99303EA	74HCT541	20	Octal buffer/line driver tri-state .....	.28	.24
45090EA	74HCT573	20	Octal D-type latched flip-flop tri-state .....	.30	.25
45102EA	74HCT574	20	Octal D-type flip-flop edge-trigger tri-state .....	.25	.23
45129EA	74HCT688	20	8-bit magnitude comparator .....	.52	.47

74LS Series

48 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
46252EA	74LS00**	14	Quad 2-input NAND gate	\$.29	\$.27
46287EA	74LS02**	14	Quad 2-input NOR gate .....	.29	.25
46316EA	74LS04**	14	Hex inverter .....	.29	.26
46341EA	74LS05*	14	Hex inverter (O.C.) .....	.34	.28
46367EA	74LS07	14	Hex buffer/driver (O.C. hi-voltage) .....	.84	.79
46375EA	74LS08**	14	Quad 2-input AND gate .....	.36	.31
46404EA	74LS10*	14	Triple 3-input NAND gate .....	.24	.18
46439EA	74LS11*	14	Triple 3-input AND gate .....	.31	.23
46640EA	74LS14*	14	Hex inverter Schmitt trigger .....	.29	.25
47095EA	74LS20*	14	Dual 4-input NAND gate .....	.22	.19
47458EA	74LS30*	14	8-input NAND gate .....	.29	.25
47466EA	74LS32**	14	Quad 2-input OR gate .....	.29	.26
47693EA	74LS38	14	Quad 2-input NAND gate buffer (O.C.) .....	.29	.23
47790EA	74LS47*	16	BCD to 7-seg. decoder/driver (O.C.) .....	.72	.52
47811EA	74LS48	16	BCD to 7-seg. decoder/driver	4.99	4.49
47992EA	74LS73*	14	Dual JK flip-flop with clear	Was \$0.49	.32
48004EA	74LS74**	14	Dual D flip-flop .....	.29	.25
48021EA	74LS75*	16	4-bit bi-stable latch .....	.63	.49
48039EA	74LS76	16	Dual JK flip-flop with preset and clear .....	.69	.62
48071EA	74LS85*	16	4-bit magnitude comparator .....	.43	.33
48098EA	74LS86*	14	Quad EXCLUSIVE-OR gate .....	.35	.30
48119EA	74LS90*	14	Decade counter .....	.49	.45
48151EA	74LS93*	14	4-bit binary counter .....	.89	.79
46480EA	74LS123*	16	Dual mono. multivibrator with clear .....	.33	.28

*10 pieces included in 74LS kit, pg 41

**20 pieces included in 74LS kit, pg 41

All this and more @ www.Jameco.com

Order 24/7 Toll Free 1-800-455-6119

Call for pricing on quantities over 100 – we carry major manufacturers.

We will special order any IC – 100 Piece Minimum

74LS Series (continued)

48 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
46501EA	74LS125*	14	Quad bus buffer neg. enable tri-state	\$.39	\$.31
46607EA	74LS138**	16	3 to 8 decoder/demultiplexer .....	.38	.35
46623EA	74LS139*	16	2 to 4 decoder/demultiplexer .....	.34	.31
46703EA	74LS151*	16	8-bit input multiplexer .....	.39	.35
46738EA	74LS154	24	4 to 16 line decoder/demultiplexer	2.49	2.25
46754EA	74LS155*	16	Dual 2/4 demultiplexer .....	.39	.33
46771EA	74LS157*	16	Quad 2/1 data selector .....	.29	.25
46818EA	74LS161	16	Synch 4-bit counter .....	.35	.30
46851EA	74LS164	14	8-bit serial shift register .....	.37	.31
46931EA	74LS174*	16	Hex D flip-flop with clear .....	.35	.28
46957EA	74LS175*	16	Quad D flip-flop with clear .....	.40	.31
46990EA	74LS190	16	Synchronous up/down counter	1.49	1.34
47010EA	74LS192	16	Decade up/down counter with clear	3.95	3.59
47036EA	74LS193*	16	Binary up/down counter with clear .....	.59	.49
47141EA	74LS240*	20	Octal invert. line driver tri-state .....	.41	.31
47167EA	74LS241	20	Octal bus/line driver tri-state .....	.27	.25
47183EA	74LS244*	20	Octal driver tri-state .....	.44	.37
47212EA	74LS245*	20	Octal bus transceiver tri-state .....	.45	.39
47247EA	74LS247	16	BCD to 7-segment decoder/driver (O.C.) .....	.79	.69
47386EA	74LS273*	20	Octal D-type flip-flop with clear .....	.39	.31
47600EA	74LS373*	20	Octal D flip-flop tri-state .....	.45	.39
47634EA	74LS374*	20	Octal D F/F edge-trig tri-state .....	.45	.39
47669EA	74LS377	20	Octal D register common enable	* .14	
47722EA	74LS390	16	Dual 4-bit decade counter .....	.55	.47
47861EA	74LS540	20	Octal invert. buffer/line driver tri-state .....	.69	.59
47870EA	74LS541	20	Octal buffer/line driver tri-state .....	.69	.59
64418EA	74LS573	20	Octal D-type F/F latch tri-state	1.65	1.45
47984EA	74LS688	20	8-bit magnitude comparator	1.19	1.02

* 10 pieces in 74LS kit, pg 41 ** 20 pieces in 74LS kit, pg 41 * Prepackaged: order in increments of 10

9000 Series

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
53663EA	9368	16	FND70 driver/latch	\$4.49	\$3.95
10567EA	AM9513APC	40	System timing controller	39.95	33.99

** Pull

Semiconductor

5 more @ www.Jameco.com/IC

Part No.	Product No.	Pins	Description	1	10
133410EA	DS1216C	28	Smartwatch/RAM 64K/256k	\$31.85	\$27.69
114278EA	DS1225AB-150	28	64k nonvol. SRAM 5%pw, 4.62V WP	17.29	14.49
177113EA	DS1230Y-100	28	256k nonvol. SRAM 10%pw, 4.37V WP	17.75	13.75
176778EA	DS1302	8	Trickle charge time keeping IC	2.49	2.25
114374EA	DS1387	24	RAMified real time clock 4kx8	7.55	6.85
133452EA	DS12887	24	Real time clock chip	6.95	6.25
114382EA	DS1620	8	Digital thermometer & thermostat	6.29	5.05

** Pull

Maxim-Type Interface Series

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
142535EA	MAX202CPE	16	+5V RS232 trans. requires 0.1µF caps	\$2.49	\$2.25
244241EA	MAX202EPE	16	+5V RS-232 Transceivers	1.13	.99
24811EA	MAX232CPE	16	+5V powered, dual RS232 transmitter/ receiver (0°C to +70°C)	2.19	1.75
106147EA	MAX232CWE	16	+5V powered, dual RS232 (SOIC) trans./rcvr.	1.95	1.75
106155EA	MAX232EPE	16	+5V powered, dual RS232 transmitter/receiver (-40°C to +85°C)	2.49	2.25
106163EA	MAX233CPP	20	+5V powered, multichannel RS232 drivers/receivers (no ext. components)	5.75	5.18
106171EA	MAX235CPG	24	+5V powered, five RS232 transmitter/ receiver (no ext. components)	9.95	8.45
242085EA	MAX626CPA	8	Dual 1.5A-peak low-side MOSFET driver	1.14	.93
244195EA	MAX1487CPA	8	RS-485/RS-422 low-power transceivers	2.45	1.89

♦ Surface mount

Over 99% of our products are in stock!

Interface Series

29 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
39589EA	26LS31CN	16	Quad diff line driver	\$.79	\$.69
39600EA	26LS32CN	16	Quad diff line receiver .....	.59	.50
50964EA	75176BN	8	Differential bus transceiver .....	.65	.55
23157EA	75188N	14	Quad line driver RS-232 (DS1488N) .....	.29	.25
23181EA	75189N	14	Quad line rec. RS-232 (DS1489N) .....	.29	.20
51131EA	75492	14	Hex digit driver (492)	3.29	3.19
25232EA	MC3486P	16	Quad EIA-422/423 line rec. w/ 3-st. outputs .....	.59	.49
25259EA	MC3487P	16	Quad EIA-422 line driver w/ 3-state outputs .....	.69	.59

Digital Interface ICs

More @ www.Jameco.com/IC

Stepper Motor Controllers

Designed to interface a logic level input byte to a stepper motor.

Part No.	Product No.	Pins	Description	1	10
141532EA	EDE1200	18	Unipolar stepper motor controller	\$8.95	\$7.95
157526EA	EDE1204	18	Bipolar stepper motor controller	8.95	7.95

5000 Series and Clock Chips

6 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
32803EA	TCM5089N	16	Integrated tone dialer chip	\$4.95	\$4.49
25101EA	MC146818	24	Real time clock plus RAM	4.95	3.75

Decoders

13 more @ www.Jameco.com/IC

Part No.	Product No.	Pins	Description	1	10
126607EA	HT648L	24	Decoder 10-bit address / 8-bit latch data	\$3.29	\$2.99

KAE Servo Motor Controller

More @ www.Jameco.com/IC

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

PIC-SERVO Motion Control Chipset for DC Motors

- PIC servo control for DC motors with digital encoders
- 32-bit position, velocity, and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chip set (PIC-SERVO 28-pin and PIC-ENC 18-pin)



Part No.	Description	Pins	1	10
146472EA	PIC-SERVO chip set, 0.3" DIP	28/18	\$34.95	\$29.95

A/D & D/A Converters

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
43756EA	7107CPL	40	3 1/2-digit LED single-chip A/D converter	\$3.49	\$2.79
115158EA	AD558JN	16	Microprocessor compat. 8-bit DAC	15.99	12.75
10153EA	ADC0804LCN	20	8-bit A/D converter (1 LSB)	2.49	1.89
10170EA	ADC0808CCN	28	8-bit A/D convtr. w/ 8-ch. multiflexer	4.99	4.15
10188EA	ADC0809CCN	28	8-bit A/D convtr. w/ 8-ch. multiflexer	2.95	2.75
116100EA	ADC0831CCN	8	8-bit A/D converter w/ single diff. input	1.95	1.75
128186EA	DAC0832LCN	20	8-bit µP D/A conv. dbl. buff. (.05% Lin.)	2.79	1.69

Voltage Regulators

48 more @ www.Jameco.com/IC

Part No.	Cross Ref.	Pkg.	Description	1	10
23579EA	LM317T**	TO-220/3	1.5A adj. pos. reg. (1.2V-37V)	\$4.45	\$3.39
23667EA	LM323K	TO-3/2	5V 3A positive reg.	3.19	2.78
23819EA	LM337T*	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V) .....	.69	.59
23835EA	LM338K	TO-3/2	5A adj. pos. reg. (1.2V-32V)	3.95	3.59
192284EA	LM338T	TO-220/3	5A adjustable regulator	1.99	1.49
23940EA	LM350T	TO-220/3	3 amp. adj. power regulator	1.75	1.55
24467EA	LM723CN*	DIP-14	Voltage regulator (2V-37V) .....	.29	.26
51182EA	78L05**	TO-92	5V 100mA pos. voltage regulator .....	.27	.24
192225EA	78L09	TO-92	9V 100mA pos. voltage regulator .....	.22	.20
51203EA	78L12*	TO-92	12V 100mA pos. voltage regulator .....	.25	.21
192233EA	78M05	TO-220/3	5V 500mA pos. voltage regulator .....	.35	.30
192241EA	78M12	TO-220/3	12V 500mA pos. voltage regulator .....	.35	.32
51262EA	7805T**	TO-220/3	5V 1A pos. voltage reg. (LM340T-5) .....	.35	.32
51300EA	7808T*	TO-220/3	8V 1A pos. voltage reg. (LM340T-8) .....	.35	.32
51334EA	7812T**	TO-220/3	12V 1A pos. voltage reg. (LM340T-12) .....	.35	.32
51431EA	79L12	TO-92	12V 100mA neg. voltage regulator .....	.28	.25
51457EA	7905T*	TO-220/3	5V 1A neg. voltage regulator .....	.39	.35
51481EA	7912T*	TO-220/3	12V 1A neg. voltage regulator .....	.39	.35

* 10 pieces in Linear kit, pg 41 ** 20 pieces in Linear kit, pg 41

Call for pricing on quantities over 100 – we carry major manufacturers.

We will special order any IC – 100 Piece Minimum

 TO-3 package 4-pin	 TO-92 package 3-pin	 TO-220 package 3 or 5-pin	 DIP package 8, 14, 16, 18, and 20-pin
---------------------------	----------------------------	----------------------------------	--

Linear Series

114 more @ www.Jameco.com/IC

* Prepackaged: order in increments of 10

Part No.	Cross Ref.	Pkg.	Description	1	10
51140EA	7555IPA	DIP-8	CMOS timer (LM555CN)	\$.49	\$.46
51879EA	8038CCPD	DIP-14	Precision wave form generator	3.19	2.49
25751EA	MF10CN	DIP-20	General purpose dual active filter	3.25	2.75
120723EA	LM12CLK	TO-3/4	80W op amp.	19.05	17.85
107094EA	LM34CZ	TO-92	Prec. F temp. sensor (-40 F to +230 F)	5.59	4.45
155192EA	LM34DZ	TO-92	Prec. F temp. sensor (+32 F to +212 F)	1.99	1.67
192217EA	LM35DT	TO-220/3	Prec. C temp. sensor (-55 C to 150 C)	2.79	2.09
107107EA	LM35CZ	TO-92	Prec. C temp. sensor (-40 C to 110 C)	5.79	4.39
33195EA	TL072CP*	DIP-8	Low noise JFET dual op amp.	.28	.25
33216EA	TL074CN*	DIP-14	Low noise JFET quad op amp.	.47	.39
33267EA	TL084CN*	DIP-14	JFET input quad op amp.	.46	.41
239329EA	DG211CJ	DIP-16	SPST quad channel analog switch	2.13	1.61
23392EA	LM301N*	DIP-8	Improved op amp.	.39	.35
23464EA	LM308N*	DIP-8	Precision op amp.	4.49	3.99
23528EA	LM311N*	DIP-8	Voltage comparator	.35	.25
23608EA	LM318N	DIP-8	Precision hi-speed op amp.	.59	.52
23632EA	LM319N	DIP-14	Hi-speed dual comparator	.35	.32
212169EA	LM324AN	DIP-14	Low power quad op amp.	.27	.25
23683EA	LM324N**	DIP-14	Low power quad op amp. (ULN4336)	50.29 .26	.24
23721EA	LM331N	DIP-8	Prec. volt to freq. convtr. (150ppm/C)	52.95 2.55	1.99
23739EA	LM334Z	TO-92	Adjust current source	.69	.62
23851EA	LM339N**	DIP-14	Quad comparator	.21	.18
121099EA	LP339N	DIP-14	Quad low-power comparator	.44	.34
120862EA	LM358AN	DIP-8	Low power dual op amp. (elect improv.)	.55	.43
23966EA	LM358N*	DIP-8	Low power dual op amp.	*	.17
24088EA	LM383T	TO-220/5	7-watt audio high power amp.	5.95	5.39
24133EA	LM386N-3*	DIP-8	Low voltage audio amp. 500mW/9V	.69	.59
24281EA	LM393N*	DIP-8	Dual comparator	.21	.19
23000EA	LF398N	DIP-8	Sample and hold circuit	1.59	1.45
119950EA	LF412ACN	DIP-8	Dual JFET op-amp.	2.85	2.55
27422EA	LM555CN**	DIP-8	Timer (MC1455P/NE555V)	.27	.23
126797EA	LMC555CN*	DIP-8	CMOS 555 timer	.54	.49
24328EA	LM556N*	DIP-14	Dual 555 timer (MC3456P)	.49	.45
24352EA	LM565N	DIP-14	Phased locked loop	1.49	1.29
24395EA	LM567V	DIP-8	Tone decoder	.49	.40

*10 pcs. in Linear series IC cabinet kit, pg 41

**20 pieces in Linear kit, pg 41

Linear Series (continued)

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pkg.	Description	1	10
27490EA	NE571N	DIP-16	Companer, subscriber	\$3.29	\$2.99
115174EA	AD620AN	DIP-8	Low cost instrument amplifier	17.95	15.95
115182EA	AD633JN	DIP-8	Low cost analog multiplier	7.95	7.55
120926EA	LM675T	TO-220/5	Power op amp.	6.95	5.25
24539EA	LM741CN**	DIP-8	Op amp. (ULN2151)	.29	.25
24563EA	LM747CN	DIP-14	Dual 741 op amp.	3.99	3.49
239265EA	LT1004CZ-2.5	TO-92	2.5V, micropower voltage reference	.68	.52
24942EA	MC1350P	DIP-8	Video IF amp (12V operation)	1.29	1.19
23131EA	LM1458N*	DIP-8	Dual op amp. (RC4558)	.29	.26
23211EA	LM1496N	DIP-14	Balanced mod./demodulator (MC1496P)	.79	.59
23270EA	LM1875T	TO-220/5	20-watt power audio amp.	1.95	1.55
107140EA	LM1881N	DIP-8	Video synchronous separator	2.69	2.05
24278EA	ULN2003A*	DIP-16	Hi-volt/curr. darl. transistor array	.39	.35
34972EA	XR2206	DIP-16	Monolithic function generator	3.59	3.29
34315EA	ULN2803A*	DIP-18	Hi-volt. hi-curr. darl. transistor array	.69	.59
23296EA	LM2901N	DIP-14	Quad comparator	50.39 .26	.24
23350EA	LM2917N-8	DIP-8	Frequency to volt converter	2.45	1.75
12183EA	CA3130E	DIP-8	CMOS op amp.	.75	.69
12204EA	CA3140E	DIP-8	Bi-MOS op amp.	.72	.65
12239EA	CA3161E	DIP-16	BCD to 7-seg. decoder driver	2.05	1.85
25216EA	MC3479P	DIP-16	Biphase stepper motor driver	5.75	5.18
192516EA	LM3886T	TO-220/11	68W high perf. audio amp. with mute	5.19	3.95
24168EA	LM3900N	DIP-14	Quad amp. (CA3401)	.77	.65
24230EA	LM3914N	DIP-18	Bar-graph display driver	2.25	2.02
24256EA	LM3915N	DIP-18	3 dB steps bar-graph disp. driver	2.49	1.99
24272EA	LM3916N	DIP-18	VU meter display driver	2.25	1.95
243580EA	LM4040AIZ-5.0	TO-92	5.0V, precision micropower volt. reference	1.87	1.56
25275CA	MC4044P	DIP-14	Frequency phase detector (11C44)	9.99	7.49
29356EA	RC4136N	DIP-14	Quad op amp (XR4136)	.77	.71
243379EA	MM5453N	DIP-40	Liquid crystal display driver	2.79	2.29
27385EA	NE5532*	DIP-8	Dual low noise op amp.	50.69 .49	.43
27406EA	NE5534	DIP-8	Low noise op amp.	.79	.69
241808EA	ICL7665SCPA	DIP-8	2-16V voltage detector	2.55	2.19
241816EA	ICL7673	DIP-8	Auto battery backup switch, 2.5V to 15V	1.29	1.19
241875EA	FAN8082	DIP-8	Bi-directional, 18V dc motor driver	.99	.89
241867EA	FAN8200	DIP-14	Bi-directional, 2-ch, 18V stepper motor driver	1.04	.85
25021EA	MC14411P	DIP-24	Bit rate frequency generator	6.95	5.95
241841EA	MC14467	DIP-16	Smoke detector	1.59	.97
25064EA	MC14490P	DIP-16	Hex contact bounce eliminator	6.95	6.25
241832CA	MC145012	DIP-16	Smoke detector	2.82	2.29
118586EA	MC145151P*	DIP-28	Parallel input PLL freq. synthesizer	5.95	5.05

*10 pcs. in Linear series IC cabinet kit, pg 41

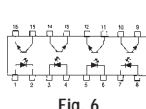
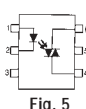
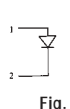
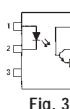
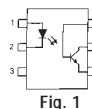
**20 pieces in Linear kit, pg 41

¶ Pull

Optoisolators

14 more @ www.Jameco.com

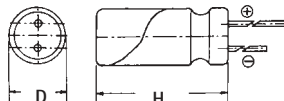
Optoisolators



Part No.	Product No.	Mfg.	Fig.	Pins	Description	Forward (V)	Input Current (mA)	Blocking Voltage (V)	Isolation (kV)	Pricing	
40985EA	4N25	◆	1	6	Diode, NPN photo transistor	1.5	10	30	2.5	\$.28	\$.25
41005EA	4N26	◆	1	6	Diode, NPN photo transistor	1.5	10	30	1.5	.29	.25
41056EA	4N35	◆	1	6	Diode, NPN photo transistor	1.5	10	30	3.5	.39	.35
41021EA	4N32	◆	3	6	Diode, NPN photo-darlington	1.5	10	30	2.5	.29	.25
41030EA	4N33	◆	3	6	Diode, NPN photo-darlington	1.5	10	30	1.5	.29	.25
114091EA	H21A1	◆	4	4	Single channel, slotted interrupter	1.7	60	30	—	.83	.75
114083EA	ISO203	Isocom	6	16	Quad channel NPN photo transistor	1.5	20	30	7.5	2.95	2.65
24918EA	MCT6	◆	2	8	Dual channel NPN photo transistor	1.3	100	30	7.5	.49	.45
26278EA	MOC3010	◆	5	6	Bilateral triac driver	1.5	50	250	7.5	.49	.45
95038EA	MOC3021	◆	5	6	Bilateral triac driver	1.5	10	400	7.5	.69	.59
160338EA	PS2501-4	◆	8	16	Photo Darlington & Transistor/Detector	1.2	20	—	—	1.35	1.12
160362EA	PS2502-4	◆	7	16	Photo Darlington & Transistor/Detector	1.2	10	—	—	1.99	1.78

Ceramic Disc Capacitors ($\pm 20\%$)

25 and 50 Volt, Z5U Temperature Coefficient



Operating temperature range	+10°C to +85°C
Cap. change over temp. range	+22% to -56%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.

- **Prepackaged:** order in increments of 10 or 100

Ceramic Disc Capacitors can be special ordered on ammo-style tape – 1000 piece minimum

Part Number	Mfr. Cross Ref. No.	Capacitance	Voltage (V)	Dia. (mm) *	10	100
15333EA	DC10	10pF	50	5	\$.07	\$.05
15405EA	DC22	22pF	50	6	.07	.05
15190EA	DC.001	.001µF	50	6	.06	.05
97341EA	DC.0022/1K20	.0022µF	1000	11	.22	.18
15229EA	DC.01	.01µF	50	6	.06	.04
15253EA	DC.047	.047µF	50	8	.084	.069
151116EA	DC.1/25	.1µF	25	6	.14	.13
15270EA	DC.1	.1µF	50	8	.15	.13

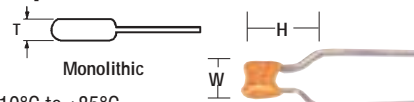
* Capacitor dimensions and lead spacing may vary

Applications:

- Data processing
- Communications engineering

Operating temperature range: -10°C to +85°C

Ceramic Disc Capacitors can be special ordered on ammo-style tape – 1000 piece minimum



* Prepackaged: order in increments of 10 or 100

Part Number	Mfr. Cross Ref. No.	Capacitance	Voltage (V)	Size (mm)* W x T x H	Pricing	
					1	10
81541EA	MD10	10pF	50	3.5 x 2.0 x 3.0	*	\$.10
81533EA	MD22	22pF	50	4.0 x 2.0 x 4.0	*	.095
81525EA	MD100	100pF	50	3.5 x 2.0 x 3.0	*	.09
25507EA	MD.01	.01µF	50	3.5 x 2.0 x 3.0	*	.09
57621EA	MD.047	.047µF	50	2.5 x 2.5 x 3.0	*	.08
25523EA	MD.1	.1µF	50	6.0 x 2.0 x 4.0	*	.07
25558EA	MD.47	.47µF	50	4.5 x 2.5 x 4.5	*	.25
81509EA	MD1	1µF	50	6.0 x 3.0 x 7.0	.48	.43
25540EA	MD.22	.22µF	50V	6.0 x 2.0 x 4.5	*	.17

* Capacitor dimensions and lead spacing may vary

Resin Dipped Solid Tantalum Capacitors

- Flame retardant coating
- Low leakage current
- Designed for entertainment and commercial equipment
- Exceptional temperature stability
- Moisture-resistant

Operating temp. range	-55°C to +85°C (+125°C with derating)
Rated voltage DC	≤ + 85°C



* Prepackaged: order in increments of 10 or 100

Part Number	Mfr. Cross Ref. No. †	Cap.	Volt.(V)	Size (mm) D x H *	1	10
33486EA	TM.1	.1µF	35	4.5 x 7.0	*	\$.25
33507EA	TM.22	.22µF	35	4.5 x 7.0	*	.25
33523EA	TM.33	.33µF	35	4.5 x 7.0	*	.25
154860EA	TM1/25	1µF	25	3.0 x 6.0	*	.29
33662EA	TM1	1µF	35	4.5 x 7.0	*	.29
33734EA	TM2.2	2.2µF	35	4.5 x 7.5	.39	.35
94043EA	TM4.7/25	4.7µF	25	5.0 x 8.5	.49	.44
33806EA	TM4.7	4.7µF	35	5.5 x 9.0	.45	.42
94060EA	TM10/16	10µF	16	5.0 x 9.0	.45	.39
94078EA	TM10/25	10µF	25	5.5 x 9.0	.59	.50
33689EA	TM10	10µF	35	6.0 x 10.0	.89	.79
94094EA	TM22/16	22µF	16	6.0 x 10.0	.69	.59
94107EA	TM22/25	22µF	25	7.0 x 10.5	1.79	1.59
33785EA	TM33	33µF	25	8.0 x 13.0	2.31	2.09
94123EA	TM47/16	47µF	16	8.0 x 13.0	1.69	1.55
33822EA	TM47	47µF	25	9.0 x 14.5	3.39	3.05
33700EA	TM100	100µF	6.3	7.0 x 10.5	1.19	1.09

* Capacitor dimensions and lead spacing may vary

[†] Dipped Tantalum Capacitor Cross References: Panasonic: EF Series; AVX: Tap Series; Sprague: 196D and 199D; Kemet: T350/ T360; Mepco: 49GS; NEC: DN; Nichicon: 599; NIC: NDTM; Hitachi: TSD-3; Matsuo: 202

General purpose low voltage 85°C

* Prepackaged: order in increments of 10 or 100						
Part Number	Mfr. Cross Ref. No. ↑	Value (μF)	Voltage (V)	Size (mm) + DxD	Pricing	
					1	10
10866EA	A1/50	1	50	5x13	*	\$.15
93569EA	A2.2/50	2.2	50	6x13	*	.11
10882EA	A10/50	10	50	6 x 12	*	.15
199267EA	A22J/25	22	25	6x12	*	.20
199355EA	A47J/35	47	35	6.3x16	*	.20
93551EA	A100/35	100	35	8x16	*	.21
93649EA	A1000/35	1000	35	13x26	.85	.75
199478EA	A2200J/50	2200	50	18x42	2.29	1.93
93681EA	A10000/16	10000	16	22 x 51	2.25	2.05

* Capacitor dimensions may vary

† AXIAL CAPACITOR CROSS REFERENCES: Elna: RE2; IC: RAR; Marcon: SEM; Nichicon: LB/VX; Rubycon: TWSS; Sprague: 501D/513D; UCC: SME; Panasonic: SU



Single Resistor Value Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use 5-digit part number adjacent to ohms in chart below
Values may not be combined for quantity price breaks

Pricing (Sold in bags of 100 pieces)				
Specify Part No. & Resistor Value (see Standard Resistor Value Chart below)	1 Bag	10 Bags	50 Bags	100 Bags
	\$.99/bag	\$.57/bag	\$.49/bag	\$.46/bag

99¢/bag
100 piece bags

Assortment Pricing: 1/4-Watt Carbon Film Resistor (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Description (Including bulk pack values)	1	10	25
10719EA	5 ea. of 70 values (every other value from 10 ohm-5.6 MΩ) (350 pcs.)	\$9.95	\$8.95	\$7.95
103165EA	10 ea. of 24 values marked (●) and 50 ea. of 6 values marked (X) (540 pcs.)	12.95	11.49	9.95
10663EA	100 ea. of 27 values marked (▲) (2,700 pcs.)	24.95	22.49	20.49
10655EA	100 ea. of 160 values (all resistor values in the chart below) (16,000 pcs.)	119.95	107.95	96.95
81832EA	1/4 watt resistor component cabinet kit – 30 values (540 pcs.) see page 41	27.95	24.95	22.49

For more resistor values you can refer to our website @ www.Jameco.com

Standard Resistor Values Chart

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
29882EA	▲● 10	30162EA	▲● 150	30963EA	● 390	29663EA	▲X 1.0k	30314EA	▲● 2.2k	31237EA	▲● 5.1k	30453EA	▲● 22k	30525EA	220k
31106EA	▲● 47	30470EA	▲X 220	31165EA	▲● 470	29735EA	● 1.2k	30390EA	▲● 2.7k	31270EA	▲● 5.6k	30841EA	▲● 33k	31202EA	▲● 470
29946EA	▲X 100	30605EA	▲● 270	31376EA	560	29760EA	▲● 1.5k	30672EA	▲● 3.3k	29911EA	▲X 10k	31149EA	▲● 47k	29698EA	▲● 1.0M
30082EA	120	30867EA	▲● 330	31499EA	▲● 680	30277EA	▲● 2.0k	31026EA	▲X 4.7k	30146EA	▲● 15k	29997EA	▲X 100k	29938EA	▲● 10M

1/8-Watt Carbon Film Resistor (±5%) Assortments

Any 1/8 or 1/2-Watt Resistor value (below) can be special ordered – 1000 pc minimum

• 1/8-W – \$12.95/k (bulk) • 1/2-W – \$15.95/k (bulk)

1/8 & 1/2-Watt Resistor Assortments Value Chart (Ohms)

10 X	150 X	330 X	680 X	2.0k X	3.3k X	5.6k X	15k X	33k X	470k X
47 X	220 #	390 X	1.0k #	2.2k X	4.7k #	6.8k X	22k X	47k X	1.0M X
100 #	270 X	470 X	1.5k X	2.7k X	5.1k X	10k #	27k X	100k #	10M X

(X), (#) symbols indicate Resistor values included in Assortments below.

Part No.	Cross Ref. No.	Values included	Description (see chart above)	Pricing	
				1	10
108302EA	ASST1830	X #	10 each of 24 values marked by X and 50 each of 6 values marked above by # (540 pcs.)	\$12.95	\$11.49
108329EA	CAB182R	—	1/8-watt resistor component cabinet kit – 30 values (540 pcs.) see page 41	24.95	22.49

1/2-Watt Carbon Film Resistor (±5%) Assortments

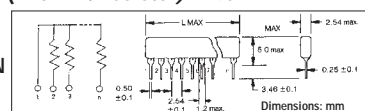
Part No.	Cross Ref. No.	Values Included	Description (see chart above)	Pricing	
				1	10
107879EA	CAB12R	—	1/2-watt resistor component cabinet kit – 30 values (540 pcs.) see page 41	\$29.95	\$26.95

Single-In-Line "SIP" Resistor Networks

8 and 10-Pin Bussed (125mW/Resistor) ±2%

Features (8BRN/10BRN):

- 8-pin package (7 resistors) = 8BRN
- 10-pin package (9 resistors) = 10BRN
- Rated power per resistor at 70°C: 125mW/ resistor
- Op. temp. range: -55°C to +125°C
- Insulation resistance: 10,000MΩ min. at 100V
- Solderability: per MIL-R-83401
- Low profile 5mm (.200" body height)
- Low profile is compatible with DIPs
- Cermet thick film construction



* 10 piece minimum

Pricing per each			
1	10	100	1000
* \$.18	\$.15	\$.11	
Pricing for P/N 97826EA			
* \$.18	\$.16	\$.12	

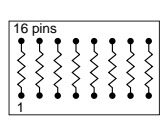
Part No.	Pins	Ohms
97826EA	8	10k
97851EA	10	330
97869EA	10	470
97877EA	10	1.0k
97893EA	10	2.2k
24660EA	10	4.7k
24643EA	10	10k
98087EA	10	47k
98095EA	10	100k

Dual-In-Line "DIP" Resistor Networks

16-Pin Isolated (140mW/Resistor) ±2%

Features (161RN):

- Maximum operating voltage: 100V
- Insulation resistance: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401
- Power rating at 70°C: 2.25 watts
- Compatible with automatic insertion equipment
- Copper leads for excellent heat dissipation
- Tolerance: ±2%



Part No.	Ohms
164005EA	33
108556EA	100
108564EA	220
108572EA	330
108581EA	470
108599EA	1.0k
108610EA	4.7k
108628EA	10k
108644EA	100k

SMD Resistor Assortment (±5%)

144 Values, 50 pcs. each; 7,200 Pieces Total



- Surface mount 0805 resistors, 144 values ranging from 1.2Ω to 10MΩ (50 pieces of each value)
- Thickness: 0.5mm
- Size: 2.0mm x 1.25mm
- Max. overload voltage: 200V
- Op. temp.: -50°C to 120°C

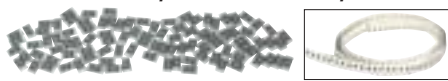
Includes: Case w/ labels

Part No.	Mfr. Cross Ref. No.	1	10	25
172806EA	16-500	\$79.95	\$71.95	\$64.79

♦ Surface mount

SMD Resistor Assortment (±1%)

56 Values, 200 pcs. each; 11,200 pcs. Total



Packaged in strips of 200 pieces each

Surface mount 1206 Series resistors, 56 values ranging from 10 to 1MΩ – see chart.

- Max. working voltage: 200V
- Max. overload voltage: 400V
- Power @ 70°C: 1/8W
- Op. temp.: -55°C to +125°C
- Temp. coefficient: ±100 ppm/°C
- 4-digit indication: 1st 3 significant, 4th multiplier

Value Chart (Ohms)

10	200	3.92k	75k
12.1	243	4.99k	90.9k
15	301	6.19k	100k
20	392	7.5k	121k
24.3	499	9.09k	150k
30.1	619	10k	200k
39.2	750	12.1k	243k
49.9	909	15k	301k
61.9	1k	20k	392k
75	1.21k	24.3k	499k
90.9	1.5k	30.1k	619k
100	2k	39.2k	750k
121	2.43k	49.9k	909k
150	3.01k	61.9k	1M

Part No.	Mfr. Cross Ref. No.	1	10	25
156881EA	SMR1206SB	\$99.99	\$89.99	\$79.99

♦ Surface mount

SMD Plastic FlipTop Case

Store 128 Different Surface Mount Components

- Perfect solution for storing P/N 156881 SMD resistor assortment, left
- 8 rows x 16 column grid
- FlipTop openings on each bin
- Color: gray
- Padded cover locks bins closed
- Size: 11.0"L x 8.3"W x 1.7"Thick

Includes: Labels for each bin

Part No.	Description	1	10
164267EA	SMD flipTop case ♦	\$49.95	\$44.99

♦ Surface mount

Looking for more? Jameco has it all.

See our website for a broad selection of Resistors.



Buzzers and Sonic Transducers

SALE

Magnetic Transducers • Applied voltage: 1/2 duty, square wave

Part Number	Fig.	Operating Volt. (Vp-p/mA)	Voltage Range (Vp-p)	Frequency (Hz)	Sound (dB)	Dimensions	Pricing	
							1	10
138721EA	1	1.5/10	1 – 2	2048	80	.32"H x .46"Dia.	\$1.49	\$1.15
207917EA	2	1.5/30	1 – 2	2048	75	.22"H x .47"Dia.	1.09	.87
207925EA	3	1.5/70	1 – 2	2048	80	.50"L x .50"W x .30"H	.69	.63
207941EA	4	1.5/80	1 – 2	2731	80	.28"H x .38"Dia.	.99	.89
207968EA	5	1.5/80	1 – 2	2731	80	.22"H x .35"Dia.	1.20	.99
207909EA	2	3.6/40	1 – 4	1980	70	.22"H x .47"Dia.	.99	.84
138739EA	1	5/40	3 – 8	2400	85	.35"H x .46"Dia.	1.49	1.29
106500EA	1	5/40	3 – 8	2400	85	.40"H x .48"Dia.	1.49	1.29
207933EA	4	5/100	4 – 8	3100	85	.28"H x .38"Dia.	.66	.60
207950EA	5	5/100	4 – 8	3100	85	.22"H x .35"Dia.	1.35	1.15

Magnetic Buzzers

Part Number	Fig.	Operating Volt. (VDC/mA)	Voltage Range (VDC)	Frequency (Hz)	Sound (dB)	Dimensions	Pricing	
							1	10
207984EA	6	1.5/30	1.25 – 2	2300	75	.47"H x .38"Dia.	\$2.99	\$2.69
76064EA	6	5/30	4 – 7	2300	85	.35"H x .46"Dia.	2.99	2.69
207976EA	6	12/30	8 – 15	2300	85	.47"H x .38"Dia.	2.49	2.19

Piezo Buzzers

Part No.	Fig.	Operating Volt. (VDC/mA)	Voltage Range (VDC)	Frequency (Hz)	Sound (dB)	Dimensions	Pricing	
							1	10
206295EA	6	12/6	3 – 20	2900	95	.63"H x .92"Dia.	\$2.49	\$2.25
196357EA	6	12/5.8	3 – 16	4000	86	.30"H x .54"Dia.	2.69	2.45
138712EA	6	12/7	3 – 16	4000	80	.30"H x .54"Dia.	2.49	2.25
207896EA	7	12/120	6 – 15	2800	105	3.4"L x 2.2"W x 1.3"H	7.95	7.19
207888EA	7*	12/120	9 – 15	3100	105	3.4"L x 2.2"W x 1.3"H	7.95	7.19
207992EA	8	12/250	6 – 16	3500	105	2.3"L x 1.8"W x 1.6"H	6.95	6.29
32601EA	9	24/15	1 – 28	2900	95	1.4"H x 1.7"Dia.	4.95	4.45
123537EA	9*	24/20	4 – 28	2900	80	1.4"H x 1.7"Dia.	4.19	3.79
76021EA	10	24/20	1.5 – 28	3200	95	1.0"H x 1.1"Dia.	4.99	4.49

* Dual tone



More available on our website!
www.Jameco.com

110VAC Piezo Buzzer

- Sound pressure level: 90dB
- Output tone: pulse
- Operating range: 60-150VAC
- Current drain: 20mA
- Fits 1.125" diameter opening
- Size: 1.3"H x 1.7"Dia.
- Includes: Mounting nut

Part No.	Product No.	1	10
184743EA	FM-110A-903AL	\$3.19	\$2.99

Omnidirectional Electret Condenser Microphone Cartridges

Applications:

- Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
- Used for recording, testing, and monitoring
- Modems for computers

Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op. Volt. (VDC)	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	Pricing	
												1	10
116505EA	WM-54PC	-44 ±2dB	>2.2kΩ	20-16,000	10V	2.5V	0.6mA	-3dB @ 2V	>60dB	PC pin leads	.20" x .38"	\$.69	\$.62
160979EA	WM-64PKT	-44 ±3dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	.72	.65
136573EA	WM-60PC	-54 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.53	.48
140986EA	CRM919	-64 ±3dB	1kΩ ±30%	20-10,000	12V	3.0V	0.8mA	-3dB @ 3V	>40dB	Solder pad	.90" x .39"	1.49	1.14

Round Ferrite Speakers

- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Paper diaphragm
- Braided copper voice coil leads

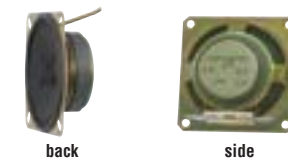
Part Number	Mfr. Cross Ref. No.	Dimensions (Dia. x D")	Input (W)		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. x H")	Pricing	
			Nom	Max					1	10
135589EA	FE200	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	\$1.59	\$1.33
177130EA	57RF07	2.2 x 0.8	0.5	0.9	45	88	500 – 8000	1.6 x 0.5	.54	.49



Square Ferrite Speaker

- Pre-tinned speaker lugs
- Large magnet
- Paper diaphragm
- Freq. range: 300-14000Hz
- Anodized metal surfaces
- Braided copper voice coil leads

Part Number	Mfr. Cross Ref. No.	Dimensions (Dia. x D")	Input (W)		Impedance (Ω)	Output SPL (dB)	Magnet Size (Dia. x H")	Pricing	
			Nom	Max				1	10
99995EA	FEB204	2.6 x 0.9	3.0	4.0	4	95	1.8 x 0.5	\$2.49	\$2.25



Full-Range Replacement Speakers

- Full-range coaxial speakers provide extended frequency response and can handle higher-powered amplifiers
- Dual-cone speakers provide richer bass tones and crisper high tones
- Two-way speakers provide extended frequency response with both a tweeter and woofer
- Impedance: 8Ω

196402EA: shielded magnet prevents signal distortion of TVs, monitors, and CTRs.

Part No.	Mfr. Cross Ref. No.	Size	Type	Shape	Freq. Range	Magnet Wt. (oz.)	RMS Watts	1	10
196402EA	480P039-1	4"	Full range shielded	square	120 – 10kHz	6	10	\$6.49	\$5.85
197077EA	6030W	6"	Full range dual cone	round	70 – 15kHz	3	8	2.87	2.61

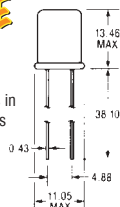


Crystals

SALE

- Frequency calibration tolerance: $\pm 50\text{ppm}$ @ 25°C
- Operating temp.: -10°C to $+60^\circ\text{C}$
- Drive level: 4.0 mW max.
- Frequency stability tolerance: $\pm 50\text{ ppm}$ from -10°C to $+60^\circ\text{C}$
- Shunt capacitance: 7pF max.

Dimensions in millimeters

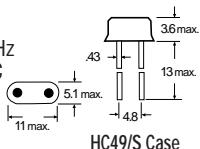


HC49/U (HC18/U) Case

Part No.	Mfr. Cross Ref. No.	Frequency (MHz)	Impedance	Microprocessor	1	10
101274EA	CY2.457	2.4576	32pF	GDP1702/1802C/1804/1804C	\$.79	\$.65
14592EA	CY4	4.0	20pF	MCS-40/MC6802,8,9/CDP1802	.59	.54
14710EA	CY7.37	7.3728	30pF	8051/8031	.89	.80
120061EA	CY11.05	11.0592	Series	General purpose	.89	.79
14517EA	CY20	20.0	Series	MCS-80/8080A/8224	.79	.69

Low Profile Crystals

- Frequency range: 3.5 to 70.0MHz
- Operating temp.: -10°C to $+60^\circ\text{C}$
- Drive level: 0.5mW (fundamental frequency)
- Aging: $\pm 5\text{ppm/year}$ maximum
- Frequency stability tolerance: $\pm 50\text{ppm}$



HC49/S Case (Low Profile)

Part Number	Mfr. Cross Reference No.	Frequency (MHz)	Imped.	Max. Resist.	Microprocessor	Pricing	
						1	10
137832EA	CY4LP	4.000	17pF	120 Ω	MCS-40/MC6802, 8, 9/CDP1802	\$.99	\$.89
137859EA	CY8LP	8.000	Series	60 Ω	IM6100A/MC68B09	.75	.67

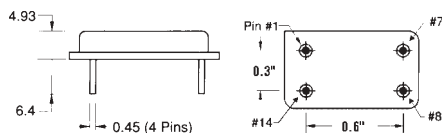
TTL Crystal Oscillators

- OSC series oscillators fit into a 14-pin DIP socket PN 133006EA, below
- Input voltage: +5VDC $\pm 0.5\text{VDC}$
- Operating temperature: 0°C to 70°C
- Frequency stability $\pm 100\text{ppm}$



27967EA

Pin #	Function	Pin #	Function
1	N/C	8	Output
7	GND	14	+5VDC



Part Number	Mfr. Cross Reference No.	Frequency (MHz)	Max Input Current	Rise Fall Time	Input Current	Pricing	
						1	10
27861EA	OSC1	1.0	7mA	15ns	45mA	\$2.75	\$2.45
27967EA	OSC4	4.0	7mA	10ns	50mA	1.99	1.79
27887EA	OSC10	10.0	15mA	10ns	20mA	1.99	1.79
27895EA	OSC12	12.0	15mA	10ns	50mA	1.99	1.65
27932EA	OSC20	20.0	17mA	10ns	20mA	1.79	1.59
76857EA	OSC100	100.0	25mA	3ns	90mA	2.49	2.25

14-Pin Crystal Oscillator Socket

- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins
- Good for prototyping and PCB mounting

Part No.	Description	1	10
133006EA	Oscillator socket	\$.55	\$.46

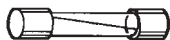
33 More @ www.Jameco.com

Find a larger selection of Crystals and Oscillators on our website.



Fuses

1 1/4" x 1/4" Standard Fuses

Fast Acting Fuses (250V)
AGC/3AG Fuses

- Prepackaged: order in increments of 10 or 100

Part No.	Amps	Manufacturer	10	100
69403EA	250mA	Various	\$.20	\$.18
10410EA	500mA	Various	.20	.18
10372EA	1 amp	Various	.20	.12
10381EA	2 amp	Various	.20	.12
69438EA	3 amp	Various	.20	.12
197544EA	4 amp	Various	.22	.20
10401EA	5 amp	Various	.22	.20
197552EA	6.3 amp	Various	.22	.20
69462EA	10 amp	Various	.25	.22
186301EA	16 amp	Various	.25	.22

Slow Blow Fuses (250V)
MDL/3AG Fuses

Part No.	Amps	Manufacturer	1	10
25638EA	1 amp	Various	\$.71	\$.59
25646EA	2 amp	Various	.54	.43
69534EA	3 amp	Various	.54	.44
25671EA	5 amp	Various	.54	.44
69569EA	10 amp	Various	.74	.65

5mm x 20mm Miniature Fuses

Fast Acting (250V) GMA Fuses



- Recommended for new designs

- Prepackaged: order in increments of 10 or 100

Part No.	Amps	Manufacturer	10	100
103886EA	250mA	Various	\$.20	\$.15
102040EA	500mA	Various	.19	.15
103907EA	1 amp	Various	.20	.15
103915EA	2 amp	Various	.20	.15
103923EA	3 amp	Various	.20	.15
103931EA	5 amp	Various	.20	.15

5mm x 20mm Miniature Low-Profile Fuse Holder

- Accepts 5 x 20mm fuses
- 10A @ 250VAC
- Size: 1.4"L x 0.6"Dia.
- D style mounting hole: 1 ea. 0.5"Dia x .46" flat



Part No.	Description	1	10
102832EA	Fuse holder UL/CSA	\$1.95	\$1.79

32 More Fuses @ www.Jameco.com

Fuse Clips

- Low profile
- Low contact resistance
- Withstands shock and vibration



102859EA 102841EA

- Prepackaged: order in increments of 10 or 100

Part No.	Description	10	100
102859EA	5mm, front leads	\$.12	\$.09
119280EA	5mm, side leads	.09	.08
102841EA	1/4", front leads (10A)	.09	.08

In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center
- Wire color: red; except for P/N 108783EA orange



102867EA

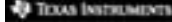
1 1/4" x 1/4" Standard

Part No.	AWG	Wire Lgths	Body Size(L)	Body Color	1	10
102867EA	20	3/3"	2.2"	White	\$.65	\$.58
151917EA	18	6/6"	2.4"	White	.99	.85
108783EA	16	21/26"	2.2"	Black	.99	.87
108791EA	14	19/25"	2.5"	Black	1.59	1.19

Call for pricing on quantities over 5000 – we carry major manufacturers.

Any transistor and diode may be supplied in ammo style tape by special order – 1000 piece min.

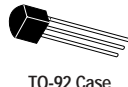
SALE



TO-18 Case



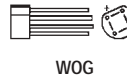
TO-39 Case



TO-92 Case



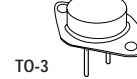
TO-220 Case



WOG



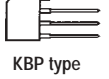
4-Pin
DIP
Case



TO-3



4-lead
Molded
Case



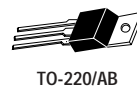
KBP type



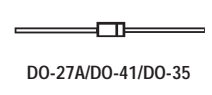
179-01
Case



TO-225AA Case



TO-220/AB



DO-27A/DO-41/DO-35

Transistors

* Prepackaged: order in increments of 10

Part No.	Product No.	Mfr.	Case	Desc.	Vceo	Min. h_{FE} @ Ic	Pricing	
							1	10
33048EA	TIP31A	◆	TO-220	NPN	60	10 @ 3A	\$.49	\$.39
33064EA	TIP32A	◆	TO-220	PNP	60	10 @ 3A	.49	.44
179240EA	TIP102	FSC	TO-220	NPN	100	1k @ 3A	.67	.62
32993EA	TIP120	◆	TO-220	NPN	60	1k @ 3A	.49	.45
179291EA	TIP120	FSC	TO-220	NPN	60	1k @ 3A	.55	.48
120416EA	TIP122	◆	TO-220	NPN	100	1k @ 3A	.38	.32
38228EA	2N2219A	◆	TO-39	NPN	40	100 @ .15A	.59	.49
28628EA	PN2222	◆	TO-92	NPN	30	100 @ .15A	* .045	
38236EA	2N2222A	◆	TO-18	NPN	40	100 @ .15A	.39	.35
28644EA	PN2907	◆	TO-92	PNP	40	100 @ .15A	* .13	
38279EA	2N2907A	◆	TO-18	PNP	60	100 @ .15A	.36	.34
25831EA	MJE2955T	◆	TO-220	PNP	60	20 @ 4A	.55	.46
38295EA	2N3053	◆	TO-39	NPN	40	25 @ .15A	.49	.44
38308EA	2N3055	◆	TO-3	NPN	60	15 @ 10A	.99	.91
25857EA	MJE3055T	◆	TO-220	NPN	60	20 @ 4A	\$.65 .52	.49
209242EA	2N3771	◆	TO-3	NPN	40	15 @ 15A	1.99	1.86
38359EA	2N3904	◆	TO-92	NPN	40	100 @ .01A	* .075	
178597EA	2N3904	FSC	TO-92	NPN	40	100 @ .01A	* .08	
178618EA	2N3906	FSC	TO-92	PNP	40	100 @ .01A	* .09	
38421EA	2N4401	◆	TO-92	NPN	40	100 @ .15A	* .07	
38447EA	2N4403	◆	TO-92	PNP	40	100 @ .15A	* .08	
194600EA	2N6059	◆	TO-3	NPN	100	75 @ 6A	1.75	1.45

◆ Manufacturer varies FSC = Fairchild Semiconductor

Small-Signal High-Voltage

Prepackaged: order in increments of 10

Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE} @Ic (mA)	10	100
178546EA	MPSA42	TO-92	NPN	300	40 @ 10	\$.10	\$.069

Small-Signal General-Purpose

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE} @Ic (mA)	10	100
178511EA	PN2222A	TO-92	NPN	40	100 @ 150	\$.09	\$.06
178520EA	PN2907A	TO-92	PNP	-60	100 @ 150	.09	.06
38375EA	2N3906	TO-92	PNP	40	100 @ 10	\$.07 .05	.04



Power

Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE} @Ic	1	10
179354EA	TIP31C-SAM	TO-220	NPN	100	10 @ 3A	\$.49	\$.39
179371EA	TIP41C-SAM	TO-220	NPN	100	15 @ 3A	\$.65 .55	.39
179389EA	TIP42C-SAM	TO-220	PNP	-100	15 @ 3A	.52	.47

N-Channel MOSFETs

* Prepackaged: order in increments of 10

Part No.	Prod. No.	Mfr.	Case	Drain Source Brkdn Volt.	Min. On-State DS Current	Pricing	
						1	10
178669EA	2N7000	FSC	TO-92	60VDC	0.2A	*	\$.12
209058EA	BUZ72L	◆	TO-220	100VDC	10.0A	.69	.55
209234EA	IRF510	◆	TO-220	100VDC	5.6A	.46	.43
209226EA	IRF520	◆	TO-220	100VDC	10.0A	.55	.52
210518EA	IRF540	◆	TO-220	100VDC	27.0A	.81	.73
210542EA	IRF640	◆	TO-220	200VDC	18.0A	.99	.92
184719EA	IRF840	◆	TO-220	500VDC	8.0A	1.49	1.29

◆ Manufacturer varies FSC = Fairchild Semiconductor

Full Wave Bridge Rectifiers

Part No.	Product No.	Mfr.	Case	Description	1	10
103018EA	W02G	◆	WO type	200 PRV, 1A	\$.32	\$.30
103042EA	DF02M	◆	4-pin DIP	200 PRV, 1A	.30	.24
103034EA	DF06M	◆	4-pin DIP	600 PRV, 1A	.29	.26
145429EA	KBP02M	◆	KBP type	200 PRV, 1.5A	.46	.35
25574EA	MDA990-3	◆	179-01	200 PRV, 30A	4.49	3.99

◆ Manufacturer varies

Triacs

Part No.	Product No.	Mfr.	Case	Description	1	10
140425EA	2N6071A	◆	TO-225AA	200 V _{DRM} , 4A	\$.49	\$.39
31819EA	SC146B	◆	TO-220	200 V _{DRM} , 10A (2N6342)	1.69	1.52
31827EA	SC146M	◆	TO-220	Triac, 600 V _{DRM} , 10A (2N6344)	1.99	1.69

◆ Manufacturer varies

Rectifiers

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Mfr.	Case	Description	10	100
35975EA	1N4001	◆	DO-41	50 PRV, 1A	\$.03	\$.025
76961EA	1N4002	◆	DO-41	100 PRV, 1A	.03	.025
76970EA	1N4003	◆	DO-41	200 PRV, 1A	.04	.025
36011EA	1N4007	◆	DO-41	1000 PRV, 1A	.04	.03
36265EA	1N5404	◆	DO-27A	400 PRV, 3A	.11	.07
36273EA	1N5408	◆	DO-27A	1000 PRV, 3A	.15	.11
35991EA	1N4004	◆	DO-41	400 PRV, 1A	.04	.025
177949EA	1N5817	◆	DO-204AL	20 PIV, 1A	.19	.17
177818EA	T6A100L	◆	T6L	1000 PIV, 6A	.49	.44

◆ Manufacturer varies

Silicon Controlled Rectifiers

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Mfr.	Case	Description	10	100
119802EA	2N5060	◆	TO-92	25 PRV, 0.8A	\$.29	\$.18
14761EA	C122M	◆	TO-220	600 PRV, 8A (isolated)	1.35	1.25

◆ Manufacturer varies

Zener Diodes

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Mfr.	Case	Description	10	100
36089EA	1N4732A	◆	DO-41	4.7V @ 53mA 1 W	\$.09	\$.06
178781EA	1N4733A	VSH	DO-41	5.1V, 1W	.09	.06
36097EA	1N4733A	◆	DO-41	5.1V @ 49mA 1 W	.09	.06
36118EA	1N4734A	◆	DO-41	5.6V @ 45mA 1 W	\$.12 .09	.06
36126EA	1N4735A	VSH	DO-41	6.2V @ 41mA 1 W	.09	.06
36169EA	1N4742A	VSH	DO-41	12.0V @ 21mA 1 W	.09	.06

◆ Manufacturer varies VSH = Vishay

Switching Diodes

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Mfr.	Case	Description	10	100
179207EA	1N914	VSH	DO-35	100 PRV (Switching)	.04	\$.032
35967EA	1N3600	◆	DO-35	50 PRV @ 100µA, 200mA	.07	.055
179215EA	1N4148	VSH	DO-35	100 PRV (Switching)	.03	.025
36038EA	1N4148	◆	DO-35	75 PRV @ 50µA, 10mA	.04	.03

◆ Manufacturer varies VSH = Vishay

See page 42 for Diode & Transistor Cabinet Kits.

TO-3 Heat Sink

- Traditional design
- Black anodized aluminum
- 4.8"L x 1.5"W x 1.3"H



Part No.	Product No.	Type	1	10
16512EA	DUDE4	TO-3	\$2.95	\$2.75

TO-3 Heat Sink

- Uses less board space
- Ideal for 0.5" centering between boards
- Spacers not included
- 8 Watts
- 1.9"L x 1.4"W x 1.3"H



Part No.	Product No.	Type	1	10
151546EA	635-125B2	TO-3	\$.99	\$.89

CPU Heat Sinks and Fans on page 32

TO-220 Heat Sink

- 2 Watts
- Black anodized aluminum
- 0.75"L x 0.52"W x 0.38"H



Part No.	Product No.	Type	1	10
158051EA	THM6078	TO-220	\$.39	\$.35

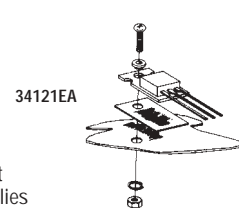
**Heat Sink Compound**

Silicone-based grease that improves transfer of energy across the metal to metal interface between transistor or rectifier to heat sink.

- Opaq. white



Part No.	Product No.	Weight	1	10
167249EA	THM250	2 oz.	\$8.95	\$7.95

Heat Sink Mounting Kits

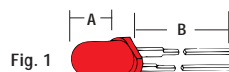
- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10
34139EA	TO-3	12-piece kit	\$4.95 \$3.95	\$3.59
34121EA	TO-220	5-piece kit	3.95	3.55

More @ www.Jameco.com**LEDs and Displays****High-Output LEDs**

- Typical DC forward current 20mA

See page 29 for LED Mounting Hardware



Part No.	Mfr. Cross Reference No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing	
							A"	B"					1	10
217525EA	MCDPW-3004C	1	White	Water clear	T1	.119/3	0.18	1.00	0.10	3.8 @ 20	3000 @ 20	—	\$2.99	\$2.85
142893EA	CLP1509	1	White	Water clear	T1 3/4	.197/5	0.34	0.79	0.08	3.6 @ 20	3700 @ 20	—	3.95	3.59
183231EA	T18W133196	1	White	Water clear	T1 3/4	.197/5	0.30	1.06	0.08	3.6 @ 20	3000 @ 20	—	2.95	2.65
183222EA	MCDL513SBC4	1	Blue	Water clear	T1 3/4	.197/5	0.29	1.02	0.08	5.0 @ 20	3000 @ 20	470	3.25	2.95
183214EA	MCDPG503PCI	1	Green	Water clear	T1 3/4	.197/5	0.30	1.04	0.08	3.5 @ 20	2200 @ 20	515	2.95	2.65
131895EA	TLSH180P	1	Orange	Water clear	T1 3/4	.197/5	0.39	0.80	0.10	2.1 @ 20	7000 @ 20	623	2.49	2.19
197683EA	BVT5E1QT4ER	1	Orange Red	Water clear	T1 3/4	.197/5	0.29	1.08	0.08	2.3 @ 20	4650 @ 20	634	.69	.59
197616EA	BVU5E1QH4E	1	Red	Water clear	T1 3/4	.197/5	0.30	1.05	0.08	1.8 @ 20	2180 @ 20	630	.39	.35
215597EA	LT2K33-81-UC9T	1	Yellow	Water clear	T1 3/4	.197/5	0.31	0.89	0.10	2.2 @ 20	5000 @ 20	590	.59	.55
197675EA	BVT5E1TT4E	1	Yellow	Water clear	T1 3/4	.197/5	0.30	1.08	0.08	2.3 @ 20	2800 @ 20	592	.45	.36
197641EA	BVT529T13E	2	Yellow	Yellow transparent	Oval	.170/.220	0.29	1.04	0.08	2.3 @ 20	7800 @ 20	590	.69	.62

LED Displays

The general advantages of LED displays compared to incandescent types include:

- Longer lifetime (averaged more than 300,000 hours)
- Lower power consumption
- Compact size suitable for instrumentation and graphic representations

Soldering:

- Soldering bath: not more than 5 seconds @ 260°C
- Soldering iron: not more than 3 seconds @ 300°C under 30W



24740EA & 24782EA



17187EA



32951EA



118906EA

7-Segment Displays

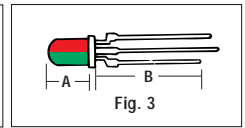
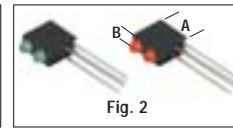
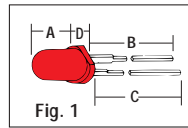
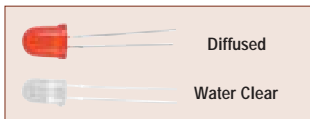
Part No.	Mfr. Cross Reference No.	Character Height	Illuminated Color	Buss Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing	
										1	10
24740EA	LSD3221-11	.300"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	\$0.89 \$1.79	\$1.72
24782EA	LSD3211-11	.300"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	.89	.75
17187EA	LSD5051-11	.500"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.80
17208EA	LSD5061-11	.500"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.75
24715EA	LDD5121-20	.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05
97199EA	LSD23265-10	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	5.75	5.19
105591EA	LSD40054-20†	4.0"	Orange Red	CA	10	2.0 @ 20	18 @ 20	635	RHDP	9.49	8.29

† P/N 105591: 5 diodes per segment

SALE**Dot Matrix Displays**

Part No.	Mfr. Cross Reference No.	Jameco Socket Number	Character Height	Illuminated Color	Buss Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing	
											1	10
173833EA	HP5082-7300	—	.290"	Red	4x7 Numeric	8	5.0 @ 170	.03 @ 20	660	RHDP	\$4.95	\$4.46
32951EA	TIL311	37161EA	.300"	Red	4x7 Hex character	11	5.0 @ 5	0.1 @ 5	660	—	16.95	14.35
118906EA	LTP747R	37161EA	.680"	Orange Red	5 x 7 AC/CR	12	1.7 @ 20	0.2 @ 20	655	—	1.95	1.79
183265EA	LMD5821ASR-20	—	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	—	4.95	4.45

* CA-Common Anode/CC-Common Cathode/AC-Anode Column/CR-Cathode Row/AR-Anode Row # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point



Standard-Output LEDs

* Prepackaged: order in increments of 10

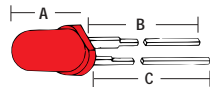
Part No.	Mfr. Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions				Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing	
							A*	B*							1	10
34657EA	LY2040	1	Yellow	Yellow diffused (XC209Y)	T1	.119/3	0.16	0.68	0.08			2.3 @ 20	15 @ 10	585	*	\$.13
114673EA	LH2043	1	Red	Water clear (BR209)	T1	.119/3	0.14	0.98	0.07			2.3 @ 20	12 @ 10	697	*	.19
94529EA	LH2040	1	Red	Red diffused (XC209RB)	T1	.119/3	0.18	1.04	0.07			2.3 @ 20	4.5 @ 10	697	*	.19
175679EA	LVG2041	1	Green	Green transparent	T1	.119/3	0.17	0.69	0.08			2.2 @ 20	129 @ 20	565	*	.15
34606EA	LSG2040	1	Green	Green diffused (XC209G)	T1	.119/3	0.13	1.05	0.08			2.2 @ 20	15 @ 10	560	*	.15
34622EA	LR2040	1	Orange Red	Red diffused (XC209R)	T1	.119/3	0.14	1.09	0.09			1.8 @ 20	1.5 @ 10	655	*	.13
137411EA	LHB2040	1	Blue	Blue diffused	T1	.119/3	0.21	0.98	0.10			4.8 @ 20	10 @ 20	430	2.49	2.25
34796EA	LR3330	1	Orange Red	Red diffused (XC556R)	T1 3/4	.197/5	0.30	0.62	0.08			1.8 @ 20	1.5 @ 10	655	*	.15
34825EA	LY3330	1	Yellow	Yellow diffused (XC556Y)	T1 3/4	.197/5	0.30	0.82	0.07			2.3 @ 20	12 @ 10	585	*	.19
11797EA	HPQLMPD141	1	Red	Water clear (BR5704)	T1 3/4	.197/5	0.29	1.05	0.07			2.0 @ 20	350 @ 20	660	*	.19
94511EA	LHB3330	1	Red	Red diffused (XC556RB)	T1 3/4	.197/5	0.31	0.81	0.08			2.3 @ 20	3 @ 10	697	*	.17
134332EA	LT18B3-81UR	1	Blue	Water clear	T1 3/4	.197/5	0.30	0.93	0.10			3.8 @ 20	350 @ 20	428	2.65	2.45
138691EA	LVB3330	1	Blue	Blue diffused	T1 3/4	.197/5	0.34	0.98	0.08			4.8 @ 20	10 @ 20	430	2.14	2.04
34761EA	LG3330	1	Green	Green diffused (XC556G)	T1 3/4	.197/5	0.31	0.79	0.09			2.3 @ 20	12 @ 10	565	*	.15
34711EA	LEG3362	1	Red/Green	White diffused bi-color/bi-state ¹	T1 3/4	.197/5	0.30	1.01	0.09			2.3 @ 20	7.5 & 8 @ 20	635/565	.33	.28
136274EA	LA44B/2G	2	Green	Green diffused (dual)	T1	.119/3	0.38	0.17	0.10			2.3 @ 20	15 @ 10	565	.49	.45
34673EA	LHG3392	3	Red/Green	White diff. bi-color/tri-state	T1 3/4	.197/5	0.30	1.02	0.03			2.3 @ 20	3 & 12 @ 10	697/565	.24	.22

¹ Reverse polarity to change color

LEDTECH LEDs

• Typical DC forward current 20mA

LEDtech is a QS9000 and ISO-9000 Certified Company



152864EA

SALE

* Prepackaged: order in increments of 10

Part Number	Product Number	Emitting Color	Lens/Feature Description	LED Size	Dia. (inch/mm)	Dimensions (Inches)				Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing	
						A	B	C	D					1	10
152768EA	LT0324-41	Green	Green clear	T1	.119/3	0.20	0.89	0.95	—	0.10	2.1 @ 20	20 @ 20	567	*	\$.12
152750EA	LT0344R-41	Orange Red	Red clear	T1	.119/3	0.20	0.89	0.95	—	0.10	2.1 @ 20	23.5 @ 10	635	*	.19
152864EA	LT1873-81	Red Super Brt.	Water clear	T1 3/4	.197/5	0.34	0.89	0.95	—	0.10	1.7 @ 20	1000 @ 20	660	.29	.24
152805EA	LT1873-81-UR	Red Ultra Brt.	Water clear	T1 3/4	.197/5	0.34	0.89	0.95	—	0.10	1.9 @ 20	2000 @ 20	660	.29	.25
156970EA	LT1873-UR-C07	Red Ultra Brt.	Water clear (wide angle)	T1 3/4	.197/5	0.34	0.89	0.95	—	0.10	1.9 @ 20	2112 @ 20	660	.35	.31

LED Mounting Hardware



95513EA



23077EA



95521EA

Prepackaged: order in increments of 10 or 100

Part No.	Mfr. Cross Ref. No.	Description	Color	Mounting Hole Dia.	Panel Thickness	Pricing	
						10	100
95513EA	LMH100	T1 snap-in	Black	.185"	Up to .070"	\$.08	\$.07
23077EA	LMH200	T1 1/4 ring & clip	Black	.257"	Up to .125"	.15	.135
95521EA	LMH250	Rect. snap-in	Black	.306" x .202"	Up to .092"	.20	.17

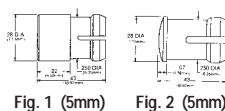


T1 3/4 Cliplite® LED Lens Mount

- Requires no assembly tools, just snap in
- Material: lens – polycarbonate; spacer – nylon
- Increases viewing angle to 180°
- Devices mount on .375" centers
- Helps guard against electrostatic discharge up to 16kV while affording the LED physical protection



29612EA



Panel Mount LED Indicators

- Easy panel installation
- Panel/status/ instrument indicators
- Vf @ If: 2V @ 20mA
- Color: red
- Chrome housing

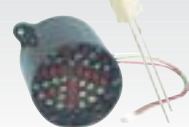


- 141129EA: LED size: T1
- 141137EA: LED size: T1 1/4
- Mounting hole: .24"
- Mounting hole: .31"

Part No.	Mfr. Cross Ref. No.	Dimensions (in.)			Pricing	
		L	A	B	1	10
141129EA	L913RD	.56	.39	.32	\$1.09	\$.81
141137EA	L917RD	.70	.55	.47	.89	.79

More @ www.jameco.com

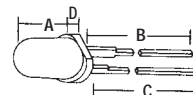
Additional Hi-Output LEDs and Accessories on our website.



Infrared Emitters

- Use for remote control and/or for fiber optics
- P/N 133946EA: Can be used w/ cameras, see pg 15 (peak emission wavelength: 940nm @ If 20mA)

SALE



106526EA

Part No.	Mfr. Cross Ref. No.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vf @ If	nm	mWatts	Pricing	
					A	B	C	D				1	10
106526EA	TLN110	Infrared emitter diode (GaAs)	T1 1/4	0.200/5	0.34	0.78	0.84	0.04	1.2V @ 20mA	940	9	\$.39	\$.29
133946EA	SLI-0308CP	Infrared emitter diode (GaAs)	T1	0.12/3	0.22	0.98	1.00	0.03	1.7V @ 50mA	940	200	\$.83 .62	.53

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

Order 24/7 Toll Free 1-800-455-6119

Scott Edwards Electronics, Inc. Serial LCD Modules

Includes instruction codes for character gen., cursor control, printing, etc. Examples for Stamps in PBASIC included.

16 characters x 2 lines Integrated Display

Ideal for use w/ BASIC Stamps (pg 100), 80C52-BASIC controllers (pg 18) and PCs!

- Terminal style 1200–9600bps serial input with 16-byte input buffer
- EEPROM storage of settings, six custom characters, and a splash screen
- Serial control of the standard LED backlight
- Low current draw; 5mA (backlight off) to 40mA (backlight on and bright)
- Power requirement: 4.8 – 5.5VDC @ 5mA (recommend P/N 164101EA, pg 39)



Part No.	Description	Module Size (LxWxT)	1	10
150990EA	LCD module	3.2" x 2.0" x 0.5"	\$48.95	\$44.09

16 characters x 2 lines LCD Serial Backpack®

- High-contrast supertwist display
- Serial "backpack" accepts RS-232, or inverted CMOS, TTL at 2400 or 9600bps
- Power requirement: 4.8 – 5.5VDC @ 3mA (recommend P/N 164101EA, pg 39)
- Connector: 5-pin header (recommend P/N 163686EA, see web)



Part No.	Description	Module Size (LxWxT)	1	10
133129EA	LCD module	3.1" x 1.4" x 0.7"	\$59.95	\$53.99

**20 x 4 Serial LCD Modules**

- 20 characters x 4 line display with large digit mode
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping and auto scroll feature
- Backlight supply current: 90mA typical
- Serial input at 1200–19,200bps (jumper selectable)
- Connect 16 modules using the same 2 wire interface
- Display size: 3.0"L x 1.0"W

Includes: Manual and software

150957EA: 20 x 4 Serial LCD Module

- Power requirement: 5VDC @ 10mA typical (recommend P/N 164101EA, pg 39)

157323EA: 20x4 Serial LCD Module with keypad Interface

- Power requirements: 5VDC @ 16mA typical (recommend P/N 164101EA, pg 39)

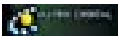
Part No.	Description	Module Size (LxWxT)	1	10
150957EA	LCD module	3.9" x 2.4" x 0.7"	Was \$89.95 \$54.19	\$52.69
157323EA	Module w/ interface	3.7" x 2.4" x 1.1"	Was \$109.95 72.95	71.15



150957EA



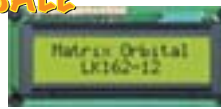
157323EA

SALE**16 Characters x 2 Lines Serial LCD Module**

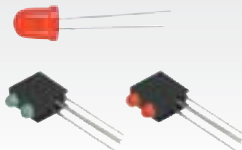
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature
- Serial input at 1200–19,200bps (jumper selectable)
- Connect 16 modules using same 2 wire interface
- Backlight supply current: 40mA typical
- Display size: 2.5"L x 0.7"W
- Power requirement: 5VDC @ 9mA (recommend P/N 164101EA, pg 39)

Includes: Manual and software

Part No.	Description	Module Size (LxWxT)	1	10
174166EA	16 x 2 w/ interface	3.2" x 1.5" x 0.8"	Was \$64.95 \$52.39	\$51.19

SALE**More @ www.Jameco.com**

See our website for our complete selection of Optoelectronic Components.

**Point Six 16 x 4 Parallel LCD Module**

- 16 x 4 character display (.78"H)
- Character font: 5 x 8 dots
- Input data: 4-bit or 8-bit interface available
- Display size: 2.4"L x 1.0"W x 0.06"T



Requires: 4.5V @ 2mA wall transformer (recommend P/N 164101EA, pg 39)

Part No.	Description	Module Size (LxWxT)	1	10
151933EA	16 x 4 parallel LCD	3.4" x 2.4" x .25"	\$24.95	\$22.49

Serial LCD Interface Module

For Parallel LCD Displays with Hitachi 44780 Chipset

- Supports 1 x 8 thru 4 x 20 LCD display formats
- Provides word wrap, control character processing for display blanking, cursor blanking, up-down-left-right cursor controls
- Compatible with P/Ns 151933EA (above) and 171715EA (below)



Part No.	Description	Size (LxW)	1	10
157981EA	LCD serial module	1.5" x 1.0"	\$22.95	\$20.95

0.6" High 3½-Digit LCD Digital Panel Meters

- Automatic polarity indication
- Input impedance: >100MΩ
- Input Ranges: 200mV, 20V, 200V, 500V
- Accuracy: ±0.5%
- Dimensions: 2.7"L x 1.7"W
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095EA, pg 34)

175951EA



Part No.	Description	1	10
175951EA	"1999" LCD DPM	\$12.95	\$11.95
146835EA	"1999" LCD DPM backlit display	19.95	17.99

40 x 2 Parallel LCD Module with Backlight

- 40 x 2 character display
- Control chip HCD44780
- Character font: 5 x 8 dots
- Column driver: KS0063B
- Backlight: yellow-green
- Supply voltage (logic): 5VDC @ 5mA



- Display size: 5.81"L x 0.45"W
- Module size: 7.2"L x 1.4"W x 0.4" Thick

Part No.	Description	1	10
215159EA	40 x 2 parallel LCD	\$29.99	\$26.99

**LCD Parallel Display****16 Characters x 2 Lines**

- 14-pin/terminals
- Controller: KS0066U or equivalent
- Character font size: 0.125"W x 0.200"H
- Max. input voltage: 5.3VDC
- 8-bit interface data bus
- Display size: 2.5"L x 0.7"W
- Operating input voltage: 5VDC (recommend P/N 164101EA, pg 39)



Part No.	Product No.	Module Size (LxWxT)	1	10
171715EA	AC162A	3.4" x 1.2" x 0.5"	\$19.95	\$17.95

**16 x 4 Parallel LCD Display**

- 4-bit or 8-bit parallel interface • 5 x 8 dot matrix
- Control LSI HD4470 or equivalent and column driver MSM5259 or equivalent
- Display size: 2.4"L x 1.0"H
- Module size: 3.4"L x 2.4"W x 0.3"T



Part No.	Description	1	10	25
210761EA	16 x 4 LCD display	\$22.95	\$19.95	\$18.69

Incandescent Lamps

Part No.	Mfr. Cross Ref. No.	Description	Volts (VDC)	Current (A)	MSCP	Pricing	
141073EA	2182	T1 3/4 wire terminal	14.0	.08	.30	\$5.59	\$5.53
141065EA	2200	T1 3/4 wire terminal	5.0	.06	.05	.59	.53
141057EA	6833T	3/4 wire terminal	5.0	.06	.05	1.29	1.16

141073EA

141057EA



Call for additional OEM PRICING – we carry major manufacturers.

- Low profile
- Agency approved
- Ball and sleeve bearings
- Low power consumption
- Low acoustical noise rating
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller



+ Size Conversion Inches to MM					
Inches	MM	Inches	MM	Inches	MM
0.25	6	1.20	30	2.48	75
0.40	10	1.40	35	3.15	80
0.60	15	1.60	40	3.63	92
0.80	20	1.80	45	3.72	95
0.90	23	2.00	50	3.83	97
1.00	25	2.36	60	4.68	120

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size ⁺ (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing	
												1	10
163475EA	Nidec	C34427-55APP	5	1.00 x 1.00 x 0.40	0.5	Ball	90	0.45	—	22	2"	\$4.95	\$4.46
196373EA	Sunon	KD0504PFB2-8	5	1.60 x 1.60 x 0.40	5.5	Ball	120	0.4	UL/CUL	23	12"	8.95	8.09
102921EA	Sunon	KD0504PFS2-8	5	1.60 x 1.60 x 0.40	6.3	Sleeve	120	0.6	UL/CUL	24.3	12"	7.95	6.95
207061EA	Adda	AD0505MB-G90	5	2.00 x 2.00 x 0.40	10.5	Ball	120	0.7	UL/CSA/CE	24	11"	7.95	6.55
189691EA	Sunon	KD1204PFS2	12	1.60 x 1.60 x 0.40	6.3	Sleeve	70	0.9	UL/CSA/TUV	24	12"	7.95	7.19
161699EA	Sunon	KD1204PFB2-8	12	1.60 x 1.60 x 0.40	6.3	Ball	70	0.6	UL/CSA/TUV	30	12"	7.95	6.95
212716EA	Sunon	KDE1204PFB2-H	12	1.60 x 1.60 x 0.40	6.5	Ball	90	1.1	UL/CUL/TUV/CE/NDE	27	12"	6.65	4.95
213428EA	Adda ¹	ADO412HB-G76	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	CE	30.2	12"/3 leads	7.59	7.19
213891EA	Adda	ADO412MB-D50	12	1.60 x 1.60 x 0.60	8.1	Ball	100	1.2	UL/CUL/CE	31.8	11.5"	7.59	7.19
136178EA	Adda	AD0412MS-C70	12	1.60 x 1.60 x 0.80	5	Sleeve	110	1.32	UL/CSA	23	9"	5.49	4.95
75344EA	Delta	DFB0412M	12	1.60 x 1.60 x 0.80	7.3	Ball	80	0.8	UL/CSA/VDE/CE	28	4.5"	7.69	6.92
206164EA	Sunon	KDE1204PKB-X	12	1.60 x 1.60 x 0.80	10	Ball	90	1.1	UL/TUV/CE	29.4	12"	8.95	7.95
212644EA	Sunon	KDE1205PFB3-HG	12	2.00 x 2.00 x 0.40	8.5	Ball	60	0.7	UL/CUL/TUV/CE/VDE	26	12"	6.65	4.95
212652EA	Sunon	KDE1205PFB2-HG	12	2.00 x 2.00 x 0.40	10.6	Ball	80	1.0	UL/CUL/TUV/CE/VDE	31.5	12"	6.65	4.95
212661EA	Sunon	KDE1205PFB1-HG	12	2.00 x 2.00 x 0.40	12.5	Ball	110	1.4	UL/CUL/TUV/CE/VDE	36	12"	6.65	4.95
175046EA	Globe Motors	D24-B08A-04W3-000	12	2.36 x 2.36 x 0.80	10.6	Ball	90	0.8	UL/CSA/TUV/CE	22	13"	6.95	6.25
144160EA	Adda	AD0612LB-C70GL	12	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	8.49	7.69
75352EA	Common Wealth	FP108FDC12VS2	12	2.36 x 2.36 x 1.00	15.5	Sleeve	110	1.3	UL/CSA/TUV/CE	25	12"	6.95	6.29
150421EA	Jamicon	JF0625B1H	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.7	UL/CSA/TUV	30.5	10"	6.95	6.29
134586EA	Delta ²	BFB0712H	12	2.98 x 2.98 x 1.18	11.3	Ball	360	2.6	UL/CSA/TUV/VDE	38	4"	13.95	12.59
16993EA	Various ^{3*}	FAN7315SL	12	3.15 x 3.15 x 1.00	25-40*	Sleeve	120-200*	1-2*	UL/CSA*	25*	4-12**	6.95	6.29
75361EA	Various*	FAN6315BL	12	3.15 x 3.15 x 1.00	25-40*	Ball	120-200*	1-2*	UL/CSA*	25*	4-12**	5.95	5.39
154288EA	Sunon	KDE1208PTS3-6	12	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	4.55	4.09
185834EA	Panaflo	FBM08A12H	12	3.15 x 3.15 x 1.00	39.6	Sleeve	220	2.1	—	32	11"	6.95	6.29
206181EA	Sunon	KDE1208PTS1-6	12	3.15 x 3.15 x 1.00	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	5.95	5.35
185826EA	NMB ⁴	3110KL-04W-B69	12	3.15 x 3.15 x 1.00	42	Ball	340	3.1	UL/CSA/VDE/CE	35	13"/3 leads	6.95	6.29
102955EA	Sunon	KD1208PTB1-6	12	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	33.5	12"	6.49	5.85
172460EA	Nidec ⁴	TA300DCM33406-68	12	3.15 x 3.15 x 1.00	43	Ball	290	3.5	UL/CSA	41	11"/3 leads	9.95	8.99
190983EA	Sunon	KD1209PTB1-6A	12	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	7.25	6.55
162739EA	NMB (Smart Fan) [†]	3610KL-04W-B56	12	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10"/3 leads	7.19	6.47
174140EA	Common Wealth	FP108MS3	12	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	6.95	6.29
102875EA	Delta	WFB1212H	12	4.68 x 4.68 x 1.00	86.5	Ball	360	4.3	UL/CSA/TUV	37.6	12"	10.95	9.89
94625EA	Sunon	KD1212PMB1-6A	12	4.68 x 4.68 x 1.50	108	Ball	570	6.8	UL/CSA/TUV/CE	42	12"	11.95	10.79
189851EA	Delta	WFB1212HE	12	4.68 x 4.68 x 1.50	108	Ball	490	5.9	UL/CSA/VDE/CE	41.3	12"	11.95	10.79
189886EA	NMB	3610KL-05W-B30	24	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	7.95	6.39
153411EA	Sunon	KD2412PMB2-6A	24	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	\$14.95	11.95

¹ ATX PC type ² Blower type fan ³ Replacement for the PC/XT computer power supply fan ⁴ Speed sensor [†] 162739EA: Temperature control 50°C, 3 leads * Manufacturers & specifications may vary

AC Tube Axial Fans

- Rating 115 & 220VAC @ 50/60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 11 to 211 CFM



Part Number	Manufacturer	Product Number	Voltage (VAC)	Size ⁺ (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing	
												1	10
162704EA	Toyo	USTF60301153W	115	2.36 x 2.36 x 1.18	11	Ball	38	4	UL/CSA/CE	29	12" leads	\$15.49	\$13.95
124062EA	Sunon	SP101AT1122HBT	115	4.68 x 4.68 x 1.00	78	Ball	180	18	UL/CSA/TUV/CE	46	terminals	13.49	10.95
118965EA	Fulltech	UF12A12BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CSA/TUV/CE	37	terminals	14.95	13.49
106585EA	Common Wealth	FP108-1-S1/T	115	4.68 x 4.68 x 1.50	105	Sleeve	180	12	UL/CSA/CE	47	terminals	15.95	14.39
16934EA	Common Wealth	FP108-1-S1-B	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	terminals	16.95	15.29
102883EA	Sunon	SP100A-1123XBT	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CSA/TUV/CE	50	terminals	14.95	13.95
108724EA	Fulltech	UF15AC12BTH	115	6.75 x 5.90 x 1.50	211	Ball	230	28	UL/CSA/TUV/CE	58	terminals	27.95	27.10
102891EA	Sunon	DP200A-2123XBT	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	terminals	15.95	14.39

Straight and Right-Angle 24" Fan Cords

104192EA



- Cord type: SPT-1 (2) conductor black
- Volt. rating: 300V
- Temp.range: 60°C
- Fits all terminal fans
- Length 24"

Part No.	Description	1	10
28564EA	Straight socket cord	\$.75	\$.68
104192EA	90° angle socket cord	.87	.76

Fan Filters

10 more filters on our website www.Jameco.com

Part No.	Description	1	10
138579EA	3.15" alum. washable filter	\$2.95	\$2.65
130104EA	4.68" alum. washable filter	3.49	3.19

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

Order 24/7 Toll Free 1-800-455-6119

CPU Heat Sinks and Fans

- Excellent for avoiding CPU overheating during extended system on-time
- High efficiency cooling fans
- Easy installation – just snap it in

SALE

Part No.	Description	Size (H" x W" x D")	Agency Approvals	1	10
206244EA	Heat sink w/ dual fan slot (SECC 2)	5.25 x 1.95 x 1.30	CE	\$12.95	\$11.65
196242EA	Heat sink w/ fan for socket 7 (ATX)	2.26 x 2.12 x 1.07	UL/CE/TUV	9.95	8.95
181278EA	Heat sink w/ fan for socket 7 (ATX)	2.12 x 2.05 x 1.67	UL/CE/CSA	\$9.95 8.49	7.65
118092EA	Heat sink w/ fan for 586 CPU w/ snap	2.18 x 2.30 x 1.00	UL/CE/TUV	3.95	3.19



206244EA



196242EA



181278EA

Scott Edwards Electronics, Inc.

Mini SSC II Module
(Serial Servo Controller)

- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, thus allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using modular adapter from DB9 to RJ11 (P/N 114737EA, pg 85)
- Size (PCB): 1.9"L x 1.4"W • One-year warranty



Part No.	Description	1	10
151001EA	Serial servo controller module	\$43.95	\$41.79

More Controllers @ www.Jameco.com



Visit our
website for
the complete
selection.

Industrial Motion Controllers for Brush, Brushless and Stepper Motors

All JR Kerr Automation Engineering controllers include integrated power amplifiers. Up to 32 controllers can be daisy-chained from a single full-duplex RS-485 port. See P/N 184971EA for RS-232 to RS-485 adapter.

185009EA:

- For 3-phase brushless motors w/hall effect sensors or conventional DC brush-type motors
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply

184971EA:

- Lets you operate the controllers from any standard RS-232 port

184997EA:

- Integrated indexer and driver for 2 or 4 phase stepper motors
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- Limit switch inputs, general purpose outputs, step/dir outputs for use with external drivers

184962EA: PIC-I/O multifunction I/O control board

- 12 I/O bits software configurable as inputs or outputs
- One counter input
- Three 8-bit analog inputs, two PWM outputs with high current drivers

184954EA: Simple sequencer stand-alone controller

- Programmable master controller for building stand-alone systems with the controllers above
- Plugs into a socket on the Z232-485 board (P/N 184971EA)



185009EA



184971EA



184954EA

Part No.	Description	Size (L" x W" x H")	1	10
185009EA	PIC-SERVO 3PH board for brush or brushless motors	3.1 x 3.1 x 1.0	\$ 239.95	\$215.95
184971EA	Z232-485 serial port adapter	3.1 x 2.1 x 0.5	59.95	53.95
184997EA	PIC-STEP motor control board	3.1 x 2.1 x 0.9	159.95	143.95
184962EA	PIC-I/O	3.1 x 2.1 x 0.6	99.95	89.95
184954EA	Simple sequencer	2.1 x 1.0 x 0.4	59.95	53.95

12VDC Continuous Tubular Push and Pull Solenoids

- 12VDC nominal voltage continuous
- Life expectancy: 2,000,000 cycles



142463EA



163803EA



Part No.	Type	Coil Res. (±10%)	Power Consum.	Holding Force (lbs. @ 20°C)	Wires (in.)	Size (ins.) (L x Dia.)	Shaft Dia. (in.)	Weight (lbs.)	Pricing	
									1	10
163803EA*	Push	42.8Ω	3.4W	0.75	9.0	2.00 x .60	0.156	0.10	\$9.95	\$7.65
142463EA	Pull	36Ω	4.0W	0.63	2.0	1.63 x .43	0.150	0.04	5.95	5.35

* Manufactured by Guardian (A420-067074-1)

12VDC Solenoid Valve

- Operating voltage: 12VDC
- Operational temp.: -29°C to 85°C
- Current: 350mA
- Air leakage: 1c.c./min. max. 4psi
- 0.250" quick disconnect terminals

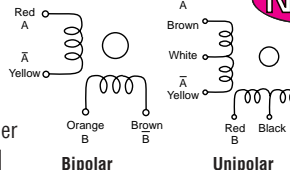


Part No.	Description	Size (LxD)	1	10
169834EA	Solenoid valve	1.2" x 0.92" ...	\$6.95	\$6.25

GBM Bipolar and Unipolar Stepper Motors

- Bearing type: ball
- Dielectric strength: 500V, 50Hz/minute
- 18" lead wires
- Ambient temperature: -10°C to +55°C
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998EA, see website for shaft coupler

NEW



Bipolar

Unipolar

155459EA
(Fig. 1)173180EA
(Fig. 2)213321EA
(Fig. 3)162026EA
(Fig. 4)237622EA
(Fig. 5)

GBM is an ISO-9001 Certified Company						Bipolar			Unipolar			(Fig. 1)	(Fig. 2)	(Fig. 3)	(Fig.4)	(Fig.5)			
Part Number	Mfr. Cross Ref. No.	Fig.	Step Angle	No. of Phases	Drive System	Volt. (VDC)	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Pricing	
																		1	10
237526EA	48BYGH001	1	1.8°	2	Bipolar	2	2.1	950	2.3	200	1700	1.22	0.10	0.200	0.95	1.67	1.34	\$16.49	\$14.85
237518EA	42BYG017	1	1.8°	2	Bipolar	6.3	15	420	16	150	1400	1.22	0.10	0.200	0.51	1.67	1.34	16.49	14.85
155459EA	42BYG023*	1	1.8°	2	Bipolar	12	30	400	36	220	2,100	1.73	0.1	0.197	0.6	1.7	1.3	17.95	16.29
237569EA	57BYG009	4	1.8°	4	Unipolar	2.4	1	2400	1.5	—	5995	1.86	0.20	0.250	0.83	2.29	2.20	32.29	29.09
237551EA	57BYG008	4	1.8°	4	Unipolar	4	3.1	1300	4.4	—	4996	1.86	0.20	0.250	0.83	2.29	2.01	29.95	26.95
237622EA	57BYGH802	5	1.8°	4	Unipolar	4.8	3.2	1500	2.9	—	8157	1.86	0.20	0.250	0.83	2.24	2.20	37.69	33.95
173180EA	30BYJ02AH ¹	2	.09°	4	Unipolar	12	200	60	49.5	400	400	1.42	0.14	0.194	0.36	1.18	.68	12.99	11.69
237542EA	57BYG007	4	1.8°	4	Unipolar	12	32	380	30	—	2997	1.86	0.20	0.250	0.83	2.29	1.61	25.95	23.35
213321EA	35BY48-27	3	7.5°	4	Unipolar	12	15	800	68	90	460	1.96	0.13	0.078	0.25	1.38	0.83	\$14.95 12.95	11.69
162026EA	57BYG084	4	1.8°	4	Unipolar	12	20	600	22	725	6,000	2.65	0.2	0.250	1.0	2.2	2.0	29.95	26.99

* Dual shaft ¹ 173180EA: Motor step angle 7.5°; Gear ratio 85.25:1

Bipolar and Unipolar Stepper Motors

- Excellent for precision control
- Can be operated in forward/reverse mode
- See website for compatible power supplies

SALE

117954EA
(Fig. 1)



163408EA
(Fig. 2)



Part Number	Mfr. Cross Ref. No.	Fig.	Step Angle	No. of Phases	Drive System	Volt. (VDC)	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Pricing	
																		1	10
117954EA	LB82773-M1	1	7.5°	2	Bipolar	5	6	800	7	100	1080	2.60	1.95	0.250	0.75	2.25	1.00	\$4.29	\$3.89
163408EA	4017-806 ¹	2	1.8°	2	Bipolar	9.2	38	240	52	36	664	1.73	0.15	0.155	0.23	1.66	1.25	2.49	2.15
164056EA	M82101-P1	1	7.5°	3	Unipolar	5	20	255	5	9	94	1.4	0.13	0.078	0.35	1.00	0.46	1.85	1.69
171601EA	PF35T484L ²	1	3.6°	4	Unipolar	7	20	350	9	40	680	1.68	0.14	0.078	0.47	1.38	0.58	4.99	4.25

¹ 163408EA: Dual shaft ² 171601EA Dual shaft with 10 tooth gear

3-26VDC Motors



star motor

NEW



154915EA



177498EA



181964EA



237382EA

Part Number	Manufacturer Cross Reference No.	Manufacturer	Efficiency	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size (D" x L")	Pricing	
						Current (Amps)	RPM	Torque (g-cm)					1	10
231861EA	UE-260-2850	Nichibo	34.88	1.5	1.5-3	1.150	4260	13.35	Solder	0.078	0.314	0.94 x 1.06	\$1.25	\$1.09
154915EA	ST-130-12240 ¹	Star Motor	55	3	1.5-3	0.170	3588	7.4	Solder	0.080	0.370	0.79 x 1.13	1.09	.93
231909EA	FE-260-18130	Nichibo	49.63	3	1.5-4.5	0.360	4780	10.27	Solder	0.078	0.314	0.94 x 1.06	.99	.89
231925EA	FE-260-2295	Nichibo	53.91	3	1.5-4.5	0.630	6850	13.96	Solder	0.078	0.314	0.94 x 1.06	.99	.89
231781EA	PC-130F-12240	Nichibo	33.39	6	3-9	0.254	6800	6.95	Solder	0.078	0.377	0.80 x 0.99	2.09	1.89
231992EA	UC-260-18160	Nichibo	49.85	6	3-9	0.571	7460	22.13	Solder	0.078	0.314	0.94 x 1.06	1.49	1.35
231984EA	UC-260-14275	Nichibo	48.84	6	6-12	0.208	4150	13.06	Solder	0.078	0.314	0.94 x 1.06	1.49	1.35
177498EA	RC280RA-2485	Mabuchi Motor	57	7.2	3-14	1.180	14260	33.3	Solder	0.080	0.430	0.95 x 1.20	1.75	1.55
231837EA	PC-280-15265	Nichibo	52.52	12	6-12	0.300	7230	24.96	Solder	0.078	0.433	0.94 x 1.20	2.45	2.19
232047EA	MD5-2445	Nichibo	65.98	12	6-12	2.050	19850	79.7	Solder	0.091	0.622	1.08 x 1.28	2.25	1.99
231757EA	PC-130SF-10315	Nichibo	44.60	12	6-18	0.250	6350	20.00	Solder	0.078	0.377	0.80 x 0.98	2.09	1.89
231749EA	PC-130SF-09400	Nichibo	42.50	12	6-24	0.150	5130	14.32	Solder	0.078	0.377	0.80 x 0.98	2.09	1.89
181964EA	NF203G12	Johnson Electric	—	12	9-14	0.030	5000	—	Solder	0.080	0.570	0.95 x 1.20	1.55	1.29
232012EA	MD5-12160	Nichibo	39.10	12	12-24	0.300	4000	34.29	Solder	0.091	0.622	1.08 x 1.28	2.25	1.99
237382EA	29SYT002	GBM	—	24	—	<0.930	>2680	1784	Wire	0.100	0.334	0.79 x 1.89	5.95	5.35
232101EA	MD5-1980AS-AA	Nichibo	60.92	24	12-24	1.430	22600	88.5	Solder	0.091	0.512	1.08 x 1.28	3.59	3.19
237403EA	40SYT002	GBM	—	26	—	1.500	300	815	Quick Connect	0.196	1.021	1.57 x 3.85	25.95	23.35

¹ Use bushing P/N 162392EA, pg 101

12 VDC Reversible Gear Head Motors

- Solder-type terminal
- High torque construction
- Oil bearing design for long service life
- Insulation resistance: 10MΩ
- Dielectric strength: 300VDC



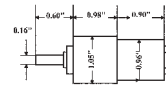
167038EA



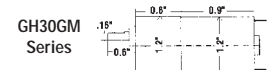
153437EA



155011EA



HN27GD Series



HN27GD Series

Part Number	Product Number	Rated Voltage	Operating Range (VDC)	No Load		Started Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Lgth (in.)	Motor Size Dia. x Lgth (in.)	Shaft Size Dia. x Lgth (in.)	Pricing	
				Current (mA)	Speed (rpm)						1	10
167038EA	GH12-0953Y	12	4.5 - 24	45	14	1200	188:1	1.0 x 0.9	1.1 x 1.0	.16 x .60	\$16.49	\$14.85

GH30GM Series

153437EA	GH12-1045Y	12	3.0 - 12	35	15	800	200:1	0.9 x 1.0	1.1 x 0.6	.16 x .70	\$18.95	\$17.09
162190EA	GH12-1324Y225	12	4.5 - 12	65	225	700	30:1	1.0 x 0.9	1.1 x 0.6	.16 x .70	16.95	15.25

GH35GM Series

155011EA	GH12-1926	12	4.5 - 12	55	2	15000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$21.95	\$19.79
155820EA	GH12-1830Y-P	12	4.5 - 12	50	4.5	13000	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	21.95	19.79
155838EA	GH12-1641T-L	12	3.0 - 12	65	20	10000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	23.95	21.59
152910EA	GH12-1926Y	12	4.5 - 12	48	44	11800	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	21.95	19.75
151440EA	GH12-1632TI	12	4.5 - 12	75	69	11000	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	18.55
155854EA	GH12-1641T-F	12	3.0 - 12	65	87	7000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	21.95	19.79
155862EA	GH12-1926Y-F	12	4.5 - 12	60	100	5000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	21.95	19.79
161381EA	GH12-1634T	12	4.5 - 12	111	200	3600	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79
164785EA	GH12-1640Y	12	4.5 - 24	45	300	800	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	23.95	21.59

Zinc Chloride, Alkaline, NiCAD, Lithium and NiMH Batteries

NEW

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.



Part Number	Mfr. Cross Ref. No.	Volts	mAh	Size	Terminals/Connection	Pricing		
						1	10	25
Zinc Chloride								
151095EA	GF6F22	9.0	300	9V	—	\$1.25	\$.99	\$.79
Alkaline								
198791EA	MN1604	9.0	500	9V	—	\$2.85	\$2.55	\$2.29
NiCAD								
244662EA	AAA-240	1.2	240	AAA	Flat top	\$1.89	\$1.85	\$1.80
244540EA	AAA-240-CT	1.2	240	AAA	Consumer tip	1.89	1.85	1.80
244380EA	2/3AA-320	1.2	320	2/3AA	Flat top	1.35	1.17	1.09
24443EA	4/5AA-600	1.2	600	4/5AA	Flat top	1.15	1.03	.93
244507EA	AA-1000	1.2	1000	AA	Flat top	2.65	2.43	2.33
244515EA	AA-1000-CT	1.2	1000	AA	Consumer tip	2.65	2.43	2.33
244486EA	AA-600	1.2	600	AA	Flat top	1.25	1.22	1.19
244494EA	AA-600-CT	1.2	600	AA	Consumer tip	1.25	1.22	1.19
244355EA	1/3A-250	1.2	250	1/3A	Flat top	1.31	1.18	1.06
244603EA	2/3A-1100	1.2	1100	2/3A	Flat top	1.99	1.81	1.71
244435EA	4/5A-1200	1.2	1200	4/5A	Flat top	2.79	2.49	2.24
244427EA	4/5A-1100	1.2	1100	4/5A	Flat top	1.65	1.45	1.39
244363EA	1/3C-700	1.2	700	1/3C	Flat top	2.59	2.33	2.10
244339EA	1/2C-800	1.2	800	1/2C	Flat top	2.87	2.58	2.32
244689EA	C-2500	1.2	2500	C	Flat top	5.15	4.86	4.65
244531EA	C-2500-CT	1.2	2500	C	Consumer tip	5.15	4.86	4.65
244671EA	C-2000	1.2	2000	C	Flat top	4.25	3.96	3.92
244523EA	C-2200-CT	1.2	2200	C	Consumer tip	4.25	3.96	3.92
244654EA	SC-1900	1.2	1900	Sub-C	Flat top	3.68	3.23	3.08
244574EA	SC-1500	1.2	1500	Sub-C	Flat top	2.15	1.98	1.87
244401EA	2/3SC-700	1.2	700	2/3SC	Flat top	3.15	2.73	2.52
244398EA	2/3SC-650	1.2	650	2/3SC	Flat top	2.85	2.50	2.36
244451EA	4/5SC-1250	1.2	1250	4/5SC	Flat top	2.85	2.56	2.35
244460EA	5/4SC-2300	1.2	2300	5/4SC	Flat top	6.05	5.57	5.05
244347EA	1/2D-2200	1.2	2200	1/2D	Flat top	4.29	4.05	3.85
244566EA	2/3D-2800	1.2	2800	2/3D	Flat top	5.25	4.73	4.35
244697EA	D-5000	1.2	5000	D	Flat top	7.79	7.60	7.45
244419EA	3/2D(F)-8000	1.2	8000	F	Flat top	20.55	18.89	16.99
126720EA	351FT	3.6	60	—	2-lead (pin), barrel	4.49	4.05	3.65
Lithium Ion								
244646EA	UR18650H1	3.6	2000	—	Flat top	\$17.55	\$15.79	\$14.21

Part Number	Mfr. Cross Ref. No.	Volts	mAh	Size	Terminals/Connection	Pricing		
						1	10	25
Lithium								
240258EA	CR123A	3.0	1300	—	Photo/computer	\$2.66	\$2.47	\$2.35
240231EA	CR2450	3.0	500	Coin cell	—	1.09	1.02	.97
240223EA	CR2335	3.0	300	Coin cell	—	1.22	1.11	1.00
14162EA	CR2032	3.0	180	Coin cell	(Clock/memory)	1.25	1.00	.75
240215EA	CR2025	3.0	150	Coin cell	—	.32	.30	.28
240207EA	CR2016	3.0	75	Coin cell	—	.38	.37	.33
240186EA	CR1616	3.0	55	Coin cell	—	.69	.63	.60
33398EA	TL5104P	3.6	1900	—	Barrel w/ leads (clock/mem.)	5.95	5.49	5.19
33427EA	TL5242W	3.6	1900	—	Battery pack w/ plug (PC)	7.49	7.15	6.75
240266EA	ER14250	3.6	900	1/2AA	—	3.99	3.89	3.81
126754EA	TL5101S	3.6	850	1/2AA	(Macintosh*)	6.95	6.29	5.65
240160EA	ER26500	3.6	6000	C	—	11.95	11.50	11.05
240151EA	ER34615	3.6	12000	D	—	15.05	14.49	13.95
33443EA	TL5293W	6.0	1900	—	Battery pack w/ plug (PC)	9.65	9.07	8.75
NiMH								
244937EA	PRIZ-F6(48)-700	1.2	700	—	Flat top-prismatic	\$3.12	\$2.81	\$2.53
244857EA	2/3AAA-280	1.2	1100	2/3AAA	Flat top	3.59	3.07	2.99
244582EA	2/3AAA-300	1.2	300	2/3AAA	Flat top	1.49	1.25	.99
244777EA	AAA-650-CT	1.2	650	AAA	Consumer tip	2.29	2.11	2.05
244700EA	AAA-650	1.2	650	AAA	Flat top	2.29	2.11	2.05
244785EA	5/4AAA-700	1.2	700	5/4AAA	Flat top	2.29	2.11	2.05
244806EA	4/5AA-1200	1.2	1200	4/5AA	Flat top	3.25	2.93	2.63
244814EA	AA-1800	1.2	1800	AA	Flat top	2.35	2.12	1.99
244822EA	AA-1800-CT	1.2	1800	AA	Consumer tip	2.35	2.12	1.99
244831EA	4/3AA-1900	1.2	1900	4/3AA	Flat top	6.89	6.20	5.58
244849EA	1/5A-400	1.2	400	1/5A	Flat top	2.39	2.15	1.93
244864EA	4/5A-1800	1.2	1800	4/5A	Flat top	3.15	2.97	2.78
244970EA	A-2200	1.2	2200	A	Flat top	3.69	3.49	3.25
244873EA	4/3A-2500	1.2	2500	4/3A	Flat top	5.29	5.01	4.68
244961EA	C-2500HT	1.2	2500	C	Flat top, high temp.	5.25	4.74	4.60
244890EA	SC-2900-HD	1.2	2900	Sub-C	High discharge	6.49	6.04	5.89
244881EA	SC-2500	1.2	2500	Sub-C	Flat top	6.10	5.49	5.29
244953EA	SC-1500HT	1.2	1500	Sub-C	Flat top	2.39	2.14	2.00
244902EA	D-9000	1.2	900	D	Flat top	21.44	17.54	16.08
244620EA	A-1400	9.0	200	A	Flat top	7.79	6.92	6.22

Long-Lasting NiMH Batteries and Chargers

Now you can reuse longer-lasting, money saving NiMH rechargeable batteries instead!



Part No.	Description	1	10
197000EA	2x C, 2300mAh	\$9.95 \$8.76	\$7.96
196998EA	2x D, 2300mAh	\$9.95 8.95	8.35

NiMH Battery Charger

Charge your AA or AAA NiMH batteries with this 8-hour battery charger. Simply plug into a wall outlet. Red LED indicates charging and green LED indicates ready to use.



- Charging bay allows 4AA or 4AAA batteries to be charged at the same time
- Output: 4AA 1.35V @ 250mA or 4AAA 1.35V @ 95mA
- Size: 2.8"W x 2.4"D x 4.6"H

Part No.	Description	Wt. (lbs.)	1	10
217533EA	Plug-in charger	1.0	\$7.95	\$6.95

See our new battery charger kit on page 99.

TEMPEST Lead Acid Batteries

- .187" color-coded terminals (except P/N 159679EA - .470")
- Sealed
- Rechargeable
- UL approved
- Two-year warranty

Tempest is an ISO-9001 Certified Company



Part Number	Product Number	Nom. Volt.	Amp. Hrs.	Charging Voltage		Cross Reference			Size L" x W" x H"	Wt. (lbs.)	Pricing	
				Standby	Cyclic	Panasonic	YUASA	Eagle Picher			1	10
155328EA	TR4-6	6	4A-h	6.75-6.9	7.2-7.5	LCR6VP	NP4-6	CF16V4	2.8 x 1.9 x 4.0	1.8	\$10.49	\$9.25
159661EA	TR2.3-12	12	2.3A-h	13.5-13.8	14.4-15	LCR12V2.2P	NP2.3-12	CF12V1.5	7.0 x 1.3 x 2.3	1.9	16.95	15.25
155336EA	TR4-12	12	4A-h	13.5-13.8	14.4-15	LCR12V4PF	NP412	CF12V4	3.6 x 2.8 x 4.0	3.4	17.95	16.19
155344EA	TR7-12	12	7A-h	13.5-13.8	14.4-15	LCR12V7.2BP	NP712	CFM12V65	6.0 x 2.6 x 4.0	5.9	18.95	17.15
168188EA	TR12-12	12	12A-h	13.5-13.8	14.4-15	PS12120	—	CFM12V12	5.9 x 3.8 x 3.8	9.0	30.95	26.95
159679EA*	TR18-12	12	18A-h	13.5-13.8	14.4-15	LCR12V17BP	NPG18-12	CF12V18	7.1 x 3.0 x 6.6	13.8	33.95	28.95

*159679EA: Bolt terminals w/ bolt & nut set

Long-Lasting Rechargeable NiMH Batteries & Chargers

NiMH rechargeable batteries feature twice the power of NiCad batteries.



NiMH Batteries

Part No.	Description	1	10
231095EA	2x AAA, 600mAh	\$6.95	\$6.25
231087EA	4x AA, 1600mAh	13.95	12.55
231116EA	2x C, 3000mAh	10.49	9.45
231124EA	2x D, 7000mAh	19.59	17.65
231108EA	1x "9V", 150mAh	8.39	7.95

NiMH Chargers

- 231141EA: Compact charger with 4 free AA batteries
- 231132EA: Universal battery charger for AAA, AA, C, D and "9V" cells (batteries not included)
- Selector switch for NiCd or NiMH type batteries
- Recharge batteries in single or group
- Automatic charging current selection for different size of batteries
- LED lamp to indicate proper charging
- Built-in IC timer control

Part No.	Description	1	5
231141EA	Compact AA charger	\$19.95	\$17.95
231132EA	Universal charger	19.95	17.95

Open-Frame Switching Power Supplies

Other Versions
Available: Call
800-831-4242

SALE

More Power Supplies @ www.Jameco.com/PS

Jameco Part No.	Mfr.	Manufacturer Product Number	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing	
			Voltage@Current (min-max)	Pwr. (W)				1	10
148603EA	Mean Well	PS-25-12	+12V@0-2.1A	25.2	85-264@47-63	100	UL/CUL/TUV/CE	\$18.95	\$17.95
190086EA	Artesyn	NFS40-7608	+5V@0-3A; +12V@0-2A; -12V@0-0.35A	43.2	85-264@47-440	50	UL/CSA/VDE/CE	49.95	44.99
88401EA	Mean Well	PT45B	+5V@0.4-3A; +12V@0.2-2A; -12V@0-0.3A	45.0	90-264@47-440	50	UL/CUL/TUV/CE	29.95	23.09
148638EA	Mean Well	PS-65-12	+12V@0-5.2A	62.4	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29
194896EA	Mean Well	PD65B	+5V@0.4-3.5A; +24V@0.2-2A	65.5	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39

Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Mfr.	Manufacturer Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing	
			Voltage@Current (min-max)	Pwr.(W)								1	10
184866EA	Skynet	SNP-0502-B	+5V@0-2A	10.0	115/230@50-60	4.4x1.6x0.8	4.0x1.3x0.1	50	1.0	1.0	UL/CUL/TUV	\$12.95	\$11.69
166967EA	Super Mac	U002512010	+5V@2.5A; +12V@1A	24.5	100-240@50-60	3.7x2.5x1.2	—	50	—	1.0	UL/CSA/TUV	12.95	10.95
163985EA	Samsung	PSPL430201A	+5V@5A; +12V@1.5A	43.0	100-120@50-60	6.1x2.1x1.0	—	—	—	—	UL/CUL	11.95	10.16
169050EA	Autec	UPS50-2002	+5V@0.2-3A; +12V@0.1-3A	51.0	90-264@47-440	5.0x3.0x1.9	4.6x2.6x0.16	50	3.0	0.5	UL/CSA/TUV	11.95	10.75
171731EA	Delta	DPS-60MPB	+3.3V@0.8-8A; +5V@1-9A; +12V@0-5.2A	65.0	90-270@47-63	5.8x3.3x1.4	—	50	2.0	2.0	UL/CUL/TUV	6.95	5.89

* Primary Output

For complete specifications and our entire listing of power supplies please visit our website @ www.Jameco.com

Enclosed Switching Power Supplies

SALE

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing	
			Voltage@Current (min-max)	Pwr. (W)				1	10
123246EA	Mean Well	S-25-5	+5V@0-5A	25.0	85-264@47-63	50	UL/TUV/CE	\$39.95	\$30.85
123254EA	Mean Well	S-25-12	+12V@0-2.1A	25.2	85-264@47-63	100	UL/TUV/CE	39.95	30.85
123271EA	Mean Well	S-25-24	+24V@0-1.1A	26.4	85-264@47-63	100	UL/TUV/CE	39.95	30.85
123297EA	Mean Well	S-40-12	+12V@0-3.5A	42.0	85-264@47-63	100	UL/CUL/TUV/CE	44.95	35.25
123334EA	Mean Well	S-60-12	+12V@0-5A	60.0	85-264@47-63	120	UL/CUL/TUV/CE	53.95	39.59
123342EA	Mean Well	S-60-15	+15V@0-4A	60.0	85-264@47-63	150	UL/CUL/TUV/CE	53.95	39.59
123351EA	Mean Well	S-60-24	+24V@0-2.5A	60.0	85-264@47-63	150	UL/CUL/TUV/CE	53.95	39.59
123457EA	Mean Well	D-60A	+5V@0.3-4A; +12VDC@0.2-3A	56.0	85-264@47-63	75	UL/CUL/TUV/CE	54.95	41.79
123465EA	Mean Well	D-60B	+5VDC@0.3-3A; +24VDC@0.2-1.8A	58.0	85-264@47-63	75	UL/CUL/TUV/CE	54.95	41.79
147045EA	Mean Well	Q-60B	+5V@0.5-5.5A; +12V@0.1-2A; -5V@0-0.5A; -12V@0-0.5A	60.0	85-264@47-63	100	UL/CUL	59.95	45.09
194829EA †	Mean Well	SP75-5	+5V@0-15A	75.0	85-264@47-63	80	UL/CUL/TUV/CE	65.49	55.49
194837EA †	Mean Well	SP75-12	+12V@0-6.3A	75.6	85-264@47-63	80	UL/CUL/TUV/CE	69.95	61.05
132370EA	Mean Well	Q-120D	5V@2-8A; 24V@0.2-2A; 12V@0.2-2A; -12V@0.2-1A	124.0	88-132/176-264@47-63	80	UL/CUL/TUV/CE	79.95	63.79
173411EA †	Mean Well	SP-150-15	15V@0-10A	150.0	85-264@47-63	100	UL/CUL/TUV/CE	91.95	76.99
173403EA †	Mean Well	SP-150-24	24V@0-6.3A	150.0	85-264@47-63	150	UL/CUL/TUV/CE	91.95	76.99
123431EA	Mean Well	SP-150-15	15V@0-10A	150	88-132/176-264@47-63	180	UL/CUL/TUV/CE	69.95	53.69
123449EA	Mean Well	S-150-24	24V@0-6.5A	156.0	88-132/176-264@47-63	240	UL/CUL/TUV/CE	69.95	51.69
167345EA	Mean Well	S-150-48	48V@0-3.2A	153.6	88-132/176-264@47-63	240	UL/CUL/TUV/CE	69.95	53.69
194773EA †	Mean Well	SP-200-12	+12V@0-16.7A	200.4	85-264@47-63	100	UL/CUL/TUV/CE	102.95	85.79
137656EA	Mean Well	S-240-24	+24V@0-10A	240.0	88-132/176-264@47-63	180	UL/CUL/TUV/CE	109.95	98.95
137390EA †	Mean Well	SP-300-12	+12V@0-24A	288.0	88-264@47-63	150	UL/CUL/TUV/CE	181.95	136.39
137402EA †	Mean Well	SP-300-24	+24V@0-12.5A	300.0	88-264@47-63	150	UL/CUL/TUV/CE	181.95	136.39
196656EA	Mean Well	S-320-24	+24V@0-12.5A	300.0	88-132/176-264@47-63	150	UL/CUL	124.95	91.85
147053EA †	Mean Well	SP500-24	+24V@0-20A	480.0	100-240@50-60	240	UL/CUL/TUV/CE	249.95	193.39
190713EA †	Mean Well	PSP-500-12	+12V@0-41.5A	498.0	90-264@47-63	150	UL/CUL/TUV/CE	269.95	232.09
190721EA †	Mean Well	PSP-500-24	+24V@0-20.8A	499.2	90-264@47-63	150	UL/CUL/TUV/CE	269.95	232.09

† PFC (Power factor correction)

Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Mfr.	Manufacturer Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing	
			Voltage@Current (min-max)	Pwr.(W)								1	10
205698EA	Volgen	ESK80U-1515	+5V@10A; +15V@0.8A; -15V@0.8A	74	115/220@50-60	8.7x5.0x1.5	—	—	—	—	UL/CSA	\$24.95	\$22.49
203529EA	ETA	WRC48SX-U	+48V@1.6A	75	85-264@47-440	6.9x3.7x1.5	—	480	0.9	0.8	UL/CSA/VDE/CE	21.95	19.79
199515EA	Globtek	RT-3S150-24	24V@6.5A	150	115/230@50-60	7.9x4.3x1.9	6.8x3.8x0.14	100	5.0	5.0	UL/CE	59.95	47.95
205663EA	SSI	QS140-1333	5V@20A; 15V@5A; 15V@3A; 15V@3A	140	120/240@50-60	10.5x5.0x2.5	8.9x3.9x0.12	50	1.0	0.2	UL/CSA/TUV	16.49	14.99

* Primary Output

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

Order 24/7 Toll Free 1-800-455-6119

13.8VDC Precision Regulated Linear Power Supply

- Output: 13.8VDC @ 4A
- Input voltage: 115VAC @ 60Hz
- Illuminated rocker switch
- Fuse protected
- Heavy duty 5'8" 3-prong power cord
- Short-circuit protection
- Output terminals: see web for mating cigarette plugs and mating banana terminal plugs



Part No.	Model No.	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10
135845EA	RPS1204	Banana term/cig. plug	6.7 x 5.2 x 3.2	5.5	\$29.95	\$26.95

276-Watt Precision Regulated Linear Power Supply

- Output current: 20A
- Illuminated rocker switch
- Short circuit protection
- Output terminals: see web for mating cigarette plugs and page 71 for mating banana terminal plugs
- Fuse protected • Output: 13.8 VDC
- Input voltage: 115VAC @ 60Hz

Includes: heavy duty 5'8" 3-prong power cord



Part No.	Model No.	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10
138675EA	52-192012	Banana	10.0 x 7.8 x 4.4	15.9	\$109.95	\$99.95

**3 & 15-Watt DC-to-DC Converters**

- Short-circuit/over-current protection
- One-year warranty

Mean Well is an ISO-9001
Certified Company

Fig. 1

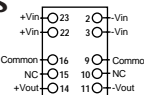
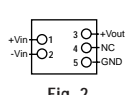


Fig. 2



155918EA

25-Watt DC-to-DC Converters

- Input voltage: 9.2VDC-18VDC
- Built-in EMI filter, low ripple noise
- Size: 3.9"L x 3.9"W x 1.5"H
- Voltage output adjustable
- Input/output connector: screw terminals
- Mating conn.: P/N 103587EA or 103595EA, see web



175812EA

Part Number	Product Number	Fig.	Power (W)	Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current (mA)	Ripple p-p (mV)	Pins	Size L" x W" x H"	Pricing	
										1	10
155918EA	DCW03A05	1	3	9-18	+5/-5	300	100	8	1.2 x 0.7 x 0.5	\$20.95	\$18.89
161701EA	DCW03A12	1	3	9-18	+12/-12	125	100	8	1.3 x 0.8 x 0.5	20.95	18.89
155707EA	SKE15A12	2	15	9-18	+12	1,250	60	4	2.0 x 2.0 x 0.4	34.95	31.19
155694EA	SKE15A24	2	15	9-18	+24	625	80	4	2.0 x 2.0 x 0.4	34.95	31.49

Part No.	Product No.	Output	1	10
175804EA	SD25A12	12V @ 2.1A	\$40.95	\$30.99
175812EA	SD25A24	24V @ 1.1A	40.95	30.99

21 and 300 Watt DC-to-DC Converters

- Over-temperature, over-voltage and short-circuit protection

SALE

109276EA



206033EA



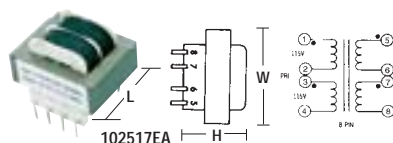
**122 More Converters
@ www.Jameco.com**

Part Number	Product Number	Power (W)	Input Voltage	Input Range (VDC)	Output Voltage (VDC)	Output Current (A)	Ripple p-p (mV)	Pins	Size L" x W" x H"	Pricing	
										1	10
109276EA	AA9090A	21	16	0-20	+5.1/+12.6/-26	3.75/0.1/0.04	500/100/200	32	3.6 x 1.6 x 0.8	\$2.79	\$2.55
206033EA	PD300-300-PC	300	300	200-300	+15	20	150	11	4.6 x 2.4 x 0.5	39.95	35.99

Power Transformers**Split-Bobbin Power Transformers**

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz • PC terminal pin spacing for accurate placement



102517EA

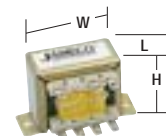
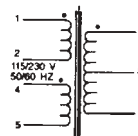
Part Number	Mfr. Cross Ref. No.	Triad Cross	Input Voltage	VA Cap	Individual Output	Parallel Output	Series Output	Dimensions			Wt. (lbs.)	Pricing	
								L"	W"	H"		1	10
102517EA	XFR1602SB†	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.17	1.38	1.20	0.3	\$6.95	\$6.25
102592EA	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	8.79	7.95

† Manufacturer and Product number may vary

Quick Connect Power Transformer

- Quick connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements
- Terminals: quick connect, solder • Input voltage: 115/230VAC, 50-60Hz

Part Number	Mfr. Cross Ref. No.	Triad Cross	Input Voltage	Output Voltage	VA Cap	Size of Connect	Dimensions			Weight (lbs.)	Pricing	
							L"	W"	H"		1	10
101864EA	XFR2424Q	FD724	115/230VAC	24VCT @ 2.4A	57.6	0.187"	1.87	2.70	2.25	1.7	\$11.95	\$10.79

**115VAC and 115/230VAC Power Transformers**

Power transformers have both single and dual voltage input and center tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier, and filter circuits.

- Primary: 115VAC or 115/230VAC, 50-60Hz * Center tap

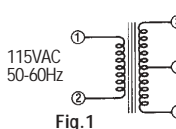


Fig. 1

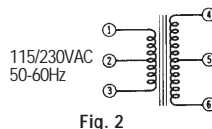


Fig. 2

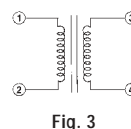
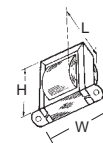


Fig. 3



29225EA

Part Number	Mfr. Cross Ref. No.	Triad Cross	Primary			VA Cap	Secondary			Lead Type	Fig.	Dimensions			Weight (lbs.)	Pricing		
			Color	Code			Voltage	Color	Code			L"	W"	H"		1	10	
102162EA	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.56	1.96	1.67	0.8	\$8.49	\$7.65
102111EA	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	2	2.22	2.33	1.97	1.5	8.95	8.09
29225EA	XFR122	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.12	2.33	1.96	1.5	9.95	8.99
112512EA	XFR242N	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	White	Wire	3	1.75	2.75	2.25	1.8	9.79	8.85
102120EA	XFR124	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.53	3.08	2.61	2.7	12.95	11.69

120VAC to 120VAC Isolated Transformer

300VA

- Input voltage: 120VAC @ 60Hz
- Input connector: 5.5" cord with 2-prong plug
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D
- Weight: 7.0 lbs.



Part No.	Mfr. Cross Ref. No.	1	10
181315EA	ITR300	\$44.95	\$33.75

**More Variable Transformers
@ www.Jameco.com**

AEEC 110VAC Variable AC Transformers

- Input voltage: 110VAC @ 60 Hz
- Power: 500 and 2000VA
- Output voltage: 0 to 130VAC
- Output analog voltmeter
- Input conn.: 3-prong plug w/ 5' cord
- Output conn.: 3-prong outlet type
- Lighted on/off power switch
- 169640EA: • 5A @ 250V fuse
- Size: 8.3"L x 6.5"W x 7.0"H
- Weight: 15.6 lbs.
- 169658EA: • 20A @ 250V fuse
- Size: 9.8"L x 8.0"W x 7.0"H
- Weight: 26.5 lbs.



169640EA



169658EA

Part No.	Description	1	10
169640EA	500VA transformer	\$84.95	\$76.49
169658EA	2000VA transformer	124.95	112.49

110/220VAC Variable AC Transformers

- Input: 110VAC or 220VAC
- Power: 500-2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch



121275EA

Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121275EA	3A/250V (P/N 69438EA)	5.3 x 7.3 x 7.0	10.4
129007EA	5A/250V (P/N 10401EA)	9.4 x 6.5 x 7.7	14.8
152581EA	10A/250V (P/N 69462EA)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10
121275EA	500VA transformer	\$79.95	\$69.95
129007EA	1000VA transformer	164.95	148.49
152581EA	2000VA transformer	174.95	158.45

Power Entry Filters

- Frequency: 50/60Hz

SALE



Fig. 1 (146907EA)



40601EA

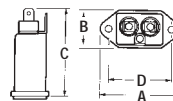


Fig. 2 (Fast-on Terminals)

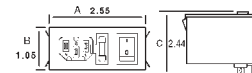


Fig. 3 (Cut out)

Part Number	Mfr. Cross Ref. No.	Corcom Cross	Description	Fig.	Current (Amps)	Voltage (VAC)	Terminal Voltage	Agency Approvals	Terminal Size	Dimension (inches)				Pricing	
										A	B	C	D	1	10
146907EA	03DENG3B*		Power entry filter (snap-in)	1	3	250	fast-on	UL/CSA/VDE	.25"	1.25	0.95	2.23	N/A	\$4.95	\$4.45
40601EA	03AE1*	3EF1F	Power entry filter, straight (flanged)	2	3	250	fast-on	UL/CSA/VDE	.25"	1.97	0.90	2.16	1.58	5.95	4.79
212206EA	A6-12S10E		Pwr. entry filter, fused w/switch (snap-in)	3	6	250	fast-on	UL/CSA/VDE	.25"	2.55	1.05	2.44	N/A	9.95	8.95

* Manufacturer may vary

Computer and Power Cords

- Molded connectors
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C
- Voltage rating: 300 volts

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875



Configuration 8 Laptop Power Cord (Fig. 1)



Power Cord w/ pigtail (Fig. 2)



RFI Power Cord (Fig. 3)



Right Angle Computer Power Cord (Fig. 4)

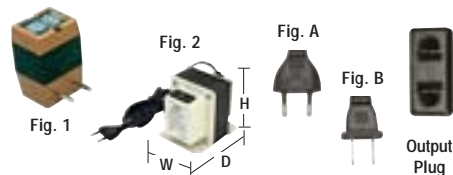


Hospital Grade Cord (Fig. 5)

Number	Mfr. Cross Reference No.	Description	Wt. (lbs.)	Approvals	Fig.	Length	AWG	Cord Type*	1	10
189587EA	VW-1	2-conductor "8" style power cord for laptops and power supplies	.30	UL/CSA	1	16'	18/2	SPT-2	\$2.95	\$2.49
37997EA	17236	3-conductor power cord with pigtail	.30	UL/CSA	2	6'	18/3	SVT	2.79	2.32
196285EA	LL40378	3-conductor power cord with pigtail	.80	UL/CSA	2	10'	16/3	SJT	3.49	2.79
38041EA	17249	3-conductor power supply cord	.37	UL/CSA	3	6'	18/3	SVT	3.49	3.15
38050EA	17250	3-conductor power supply cord	.36	UL/CSA	3	6'	18/3	SVT	3.75	3.25
125541EA	17504	3-conductor power supply cord	.71	UL/CSA	3	6' 7"	14/3	SJT	4.95	4.25
38076EA	17250R	3-conductor right angle power supply cord	.54	UL/CSA	4	6'	18/3	SVT	3.49	3.15
115078EA	17006	3-conductor power cord w/ hospital grade male (green dot)	.84	UL/CSA	5	10'	16/3	SJT	8.95	8.05

* Thermoplastic Cord Jacket Type: Light duty: SPT-2 (Flat); Junior duty: SVT (Round); Light service: SJT (Round); Junior service

International Step-Up/Step-Down Transformers



- Wide selection to meet your power requirements

Part Number	Mfr. Cross Ref. No. *	Fig.	Primary Voltage	Secondary Voltage	Power (VA)	Dimensions			Weight (lbs.)	Pricing	
						H"	W"	D"		1	10
99573EA	AC110V50	1/A	220VAC	110VAC	50	2.50	1.63	1.33	0.7	\$9.95	\$8.99
85016EA	AC110V300	2/A	220VAC	110VAC	300	3.50	3.05	3.95	4.8	27.95	24.95
111851EA	AC110V500	2/A	220VAC	110VAC	500	3.99	3.60	4.84	8.5	34.95	31.49
142906EA	AC110V1500	2/A	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	79.95	71.95
85008EA	AC220V300	2/A	110VAC	220VAC	300	3.50	3.05	3.95	4.8	27.95	24.95
222092EA	G1SD-1000	2/A	220VAC	110VAC	1000	5.38	4.38	8.13	31.0	149.95	132.55

* Manufacturer may vary



44 More Power Cords @ www.Jameco.com

Look for Jameco's complete selection of International Power Cords.

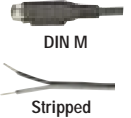
AC/DC Regulated Switching Table-Top Power Supplies

- Regulated and unregulated outputs (see "Output Plug")
- Input voltage: **Regulated:** 100-240VAC @ 50-60Hz
Unregulated: 120VAC @ 50-60Hz



Power	Part Number	Mfr. 	Mfr. Cross Ref. No. 	Output		Input VAC@Hz	Output Plug/Connector ID x OD/Plug Type/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Weight (lbs.)	Agency Approvals	Pricing	
				Pwr (W)	Volts (VDC)/ Current (A)									1	10
2-Wire AC Input – Regulated Switching															
18-25W	195805EA	Horizon	DCR920F12	18	+9/2.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	\$26.95	\$24.29
	195768EA	Horizon	DCR920F52	18	+9/2.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	22.95	20.69
	205911EA	Delta	ADP-25HB [†]	25	+30/0.83	100-125@50-60	2.1mm x 5.5mm F 2	No	Black	3.5 x 2.4 x 1.2	6'/7'	1.1	UL/CUL	17.49	15.75
3-Wire AC Input – Regulated Switching															
10-72 Watt	196218EA	GlobeTek	GT210891005T3	10	+5/2.0	120-240@50-60	2.1mm x 5.5mm F 2	No	Black	3.4 x 1.9 x 1.3	6'/*	0.4	UL/CUL/TUV/CE	\$19.95	\$17.95
	206236EA	Netgear	A15D3-05MP	15	+5/3.0	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	3.8 x 2.1 x 1.4	5'/*	0.4	UL/CSA/TUV	24.95	22.49
	228996EA	Phihong	PSA31U-050	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/*	0.5	UL/CUL/TUV/CE	26.95	24.25
	216531EA	Mean Well	KWM12F-P2MU	18	+12/1.5	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	4.0 x 1.9 x 1.5	6'/6'	0.4	UL/CUL/TUV/CE	26.95	24.25
	203086EA	Ault	SW110	25	+12/2.08	100-250@50-60	2.5mm x 5.5mm F 2	No	Black	5.1 x 3.1 x 1.6	6'/*	2.0	UL/CSA/CE	24.95	22.49
	155213EA	Mean Well	P40A-3P2JU	40	+12/3.3	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	5.5 x 2.3 x 1.5	6'/6'	0.7	UL/CUL/TUV	35.95	32.36
	155230EA	Mean Well	SPU50-3	60	+12/5.0	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.5	6'/6'	1.3	UL/CSA/TUV	49.95	44.95
	182959EA	Elpac	W7212	72	+12/6	95-250@47-63	5-pin DIN		Black	6.2 x 3.8 x 2.6	6'/6'	2.5	UL/CSA/CE	54.95	49.49
	206455EA	Ault	SC100	25	+16/1.56	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.6 x 1.5	6'/*	1.2	UL/CUL/TUV/CE	19.95	17.99
	169076EA	Eltron	808050-00	50	+20/2.5	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	6.7 x 3.3 x 2.3	6'/*	1.4	UL/CSA/TUV	22.95	18.39
	181884EA	Mean Well	P40A6P2J	40	+24/1.66	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	0.7	UL/TUV/CE	35.95	32.36
	161605EA	Mean Well	SPU50-6	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.6	1'9'/6'	1.3	UL/CSA/TUV	44.95	39.95
	172064EA	Mean Well	SPU50-9	60	+48/1.25	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.7	6'/6'	1.3	UL/CSA/TUV	44.95	40.49
	203043EA	Ault	SC200	32	+5/4, +12/1	100-240@50-60	5-pin DIN M	No	Black	5.0 x 3.0 x 1.6	6'/*	1.3	UL/CSA/CE	19.95	17.95
	190959EA	Mean Well	P25A13D-RTB	26	+5/2.5, +12/0.8 -12/0.3	100-240@47-63	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	1.1	CUL/TUV/CE	32.95	29.69

* Use P/N 38050EA for AC cord ▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, GlobTek and Jameco

AC/DC Regulated Linear Table-Top Power Supplies

Power	Part Number	Mfr. ▲	Mfr. Cross Ref. No. ▲	Output		Input VAC@Hz	Output Plug/Connector ID x OD/Plug Type/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Weight (lbs.)	Agency Approvals	Pricing	
				Power (W)	Volts (VDC)/Current (A)									1	10
2-Wire AC Input – Regulated Linear															
5-24 Watts	116089EA	Atari	C070042	5	+5/1	115@60	7-pin DIN M	No	Black	3.4 x 2.7 x 2.3	6'/6'	1.6	UL	\$8.39	\$7.55
	103173EA	Jameco	JE9100	9	+5/0.6, ±12/0.25	120@50-60	5-pin DIN M	No	Black	4.8 x 3.1 x 2.5	6'/6'	2.3	UL/CSA	20.95	18.89
	173665EA	Skyнет	DND-3005	15	+30/0.5	120-127@60	2.5mm x 5.5mm F 2	No	Black	3.0 x 2.5 x 2.2	5'9"/3'2"	1.4	UL/CUL	13.29	11.99
	174852EA	Jameco	DCR2410F52	24	+24/1	120@60	2.5mm x 5.5mm F 2	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.7	—	14.95	12.95
3-Wire AC Input – Regulated Linear															
2-12 Watts	163969EA	Gatron	AH633N	3.75	+5/0.75	120@60	4-pin mini DIN M	No	Black	4.1 x 2.5 x 2.0	6'/5'9"	1.5	UL/CSA	\$1.09	\$0.98
	154624EA	Motorola	5712-305-4C3E [†]	5.6	+5/0.5, ±12/0.13	120@60	8-pin mini DIN M	No	Black	2.9 x 2.6 x 1.9	6'/*	1.2	UL/CSA	12.95	10.39
	155651EA	Globtek	TR2V100MD8	12.2	+5/1, ±12/0.3	120@60	8-pin mini DIN M	No	Black	4.5 x 3.0 x 2.5	6'/6'	2.6	UL	9.69	8.72

[†] Wall-Mount * Use P/N 38050EA for AC cord ▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, GlobTek and Jameco

AC/DC Unregulated Linear Table-Top Power Supplies

Power	Part Number	Mfr. ▲	Mfr. Cross Ref. No. ▲	Output		Input VAC@Hz	Output Plug/Connector ID x OD/Plug Type/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Length Cords (DC/AC)	Weight (lbs.)	Agency Approvals	Pricing	
				Power (W)	Volts (VDC)/Current (A)									1	10
2-Wire AC Input – Unregulated															
12-29 Watts	136565EA	Jameco	DDC1210P	12	+12/1.0	120@60	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'/6'	1.2	—	\$13.95	\$12.59
	140880EA	Jameco	DC1215ST	18	+12/1.5	120@60	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'/6'	1.5	UL	12.95	11.66
	143714EA	—	DC1220F1	24	+12/2.0	120@60	2.1mm x 5.5mm female 2	No	Black	3.8 x 2.8 x 2.3	6' /6'	2.2	—	14.95	13.49
	139096EA	Jameco	DC2412F1	29	+24/1.2	120@60	2.1mm x 5.5mm female 2	No	Black	4.4 x 3.1 x 2.6	6' /6'	2.5	—	14.95	13.49
	3-Wire AC Input – Unregulated														
	157956EA	Everglow	PS571812D	18	+12/1.5	120@60	2.5mm x 5.5mm female 2	No	Black	3.4 x 2.7 x 2.2	6' /6'	2.0	UL	\$10.95	\$9.95

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, GlobTek and Jameco

AC-to-AC Wall Adapters

• Input: 120VAC @ 60Hz

We will change any power plug (see web) on any wall adapter listed (100 pc. minimum).

2-Wire AC Input												
Part Number	Manufacturer	Product Number	Output Rating		Output Plug ID x OD Plug Type F = female; M = male	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing	
			Voltage (VAC)	Current (mA)							1	10
101127EA	Siemens	DFX10096B	7	1500	2.5mm x 5.5mm F	1.9 x 2.2 x 2.0	Black	7'6"	0.8	UL/CSA	\$4.95	\$4.49
210729EA	ITE Power Supply	MKA35090300	9	300	2.1mm x 5.5mm F	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	3.95	3.55
100061EA	Jameco	AC905F1	9	500	2.1mm x 5.5mm F	2.4 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.59	3.95
119204EA	Sakata INX	A41090800	9	800	2.1mm x 5.5mm F	2.6 x 1.9 x 1.7	Black	6'	0.6	UL	4.69	4.25
112336EA	Jameco	AC915F5	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	9.95	7.99
101258EA	Jameco	41A12-500	12	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.59	4.15
10081EA	Leader Electronics	AC1210F1	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.19	4.67
100167EA	Jameco	AC1210F5	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.19	4.67
171408EA	—	AC1405F1	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.49	4.04
185439EA	Ault	T5182200-A020G	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	UL/CSA	7.95	7.19
87581EA	Jameco	AC2405F1	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	5.19	4.67
140599EA	Jameco	AC2410F1	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	8.95	8.09
10102EA	Jameco	AC2410M3	24	1000	3.5mm male	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	7.95	7.19
176356EA	Jameco	WP573024	24	1250	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	5'8"	1.6	UL/CSA	10.49	9.45



164101EA



171301EA

AC-to-DC Regulated Wall Adapters

We will change any power plug (see web) on any DC wall adapter listed (100 pc. minimum).



Polarity 1 (+) (center negative)



Polarity 2 (-) (center positive)

2-Wire AC Input – Regulated													
Part Number	Manufacturer	Product Number	Output Rating		Output Plug	Input VAC @ Hz	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing	
			Voltage (VDC)	Current (mA)	ID x OD Plug Type / Polarity F = female; M = male							1	10
164101EA	Jameco	DCR505F12	5	500	2.1mm x 5.5mm F 2	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	\$8.95	\$8.09
171301EA	Imitation	JOD48U08	5	1000	2.1mm x 5.5mm F 2	120@60	3.1 x 2.9 x 2.0	Black	6'	1.0	UL/CUL	10.95	9.89
168604EA	ITE Power Supply	RWP480505	5	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.95	9.89
190529EA	NOMA	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	5.69	5.15
162996EA	Jameco	DCR1205F12	12	500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	—	8.95	8.09
170245EA	Jameco	DCR1210F12	12	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	—	13.95	12.59
210809EA	Marconi	SC102TA1200-B02	12	1500	2.1mm x 5.5mm F 2	100-240@47-63	2.9 x 2.0 x 2.6	Black	10'6"	0.6	UL/CUL	14.95	11.99

AC-to-DC Unregulated Wall Adapters

2-Wire AC Input – Unregulated

Part Number	Manufacturer	Product Number	Output Rating		Output Plug ID x OD Plug Type / Polarity F = female; M = male	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing	
			Voltage (VDC)	Current (mA)							1	10
112070EA	Jameco	DC502F5	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	\$7.29	\$6.59
196761EA	Voltek	8233	7.5	1100	2.1mm x 5.5mm F 2	2.1 x 1.9 x 1.0	Black	6'	0.2	UL/CSA	6.95	6.26
133891EA	—	DC903F1	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59
140636EA	Jameco	DC904F5	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	4.19	3.79
170270EA	Panasonic	PQLV1	9	500	2.1mm x 5.5mm right angle F 1	2.7 x 1.9 x 1.8	Gray	6'	0.6	UL/CSA	3.95	3.59
100853EA	Jameco	DC905F12	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	4.49	4.05
100175EA	Jameco	DC906F5	9	600	2.5mm x 5.5mm F 2	2.5 x 1.9 x 1.8	Black	6'	0.6	UL/CSA	5.49	4.75
100888EA	Everglow	DDU090100	9	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.95	7.19
158043EA	Jameco	DC1202F12R	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.55
114825EA	Jameco	DC1205ST	12	500	Connector end may vary	2.5 x 2.0 x 1.7	Black	6'	0.6	CUL	4.75	4.35
102496EA	ITE Power Supply	DC1205F12	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	4.95	3.99
131300EA	Jameco	SCP41	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	4.95	4.49
102277EA	Jameco	DC1205F5	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	5.19	4.67
100870EA	Jameco	DC1210F1	12	1000	2.1mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	8.19	7.37
105478EA	Superworld	DC1210F5	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.49	6.74
196779EA	Jameco	D1212950	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.79	7.91

Wall adapters continued on next page.

AC-to-DC Unregulated Wall Adapters (Continued)**2-Wire AC Input – Unregulated**

Part Number	Manufacturer	Product Number	Output Rating		Output Plug ID x OD Plug Type / Polarity F = female; M = male	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing	
			Voltage (VDC)	Current (mA)							1	10
101291EA	KCS Industries	DC1215F5	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	\$10.39	\$9.35
192786EA	—	MK135100	13.5	1000	2.1mm x 5.5mm F 1	2.9 x 2.3 x 2.0	Black	6'	1.0	UL	8.95	8.09
190001EA	Jameco	DC1505F1	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	6.49	5.84
155803EA	Jameco	DC1506F11	15	600	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	8.95	8.06
203502EA	Jameco	48150900	15	900	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	6.95	6.25
191652EA	Jameco	DC1510F12	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	9.59	8.65
162317EA	Jameco	DC1605F1	16	500	2.1mm x 5.5mm F 2	2.2 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.95	6.95
102285EA	Jameco	DC2404F1	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	7.95	7.19
196322EA	3Com	P4824060A020G	24	600	2.1mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.1	UL/CSA	8.95	8.09
168495EA	Jameco	DC2408F1	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	10.95	9.89
220960EA	Jameco	DFU240100	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	13.89	12.95
117321EA	Jameco	DC2412F5	24	1200	2.5mm x 5.5mm F 2	3.8 x 3.0 x 2.6	Black	6'	2.0	—	14.95	13.49

140-Watt DC-AC Inverter

- Input voltage: 10-15VDC
- Output voltage: 110VAC @ 60Hz
- Battery low shutdown
- Peak power surge capable
- Overload & high grade thermal protection
- Size: 5.5"L x 2.6"W x 1.6"H
- Weight: 1.3 lbs.

SALE

Part No.	Description	1	10	25
188293EA	Cigarette plug	\$49.95	\$42.49	\$31.89

www.Jameco.com

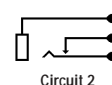
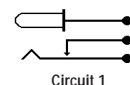
Log on for our selection
of Male and female Power Plugs

**Male & Female Power Jacks**

- Dimensions do not include barrel



Part Number	Mfr. Cross Ref. No.	H x W x D (mm)	Type Mount	Circuit/Terminal	Mating Plug (pg 89/web)	1	10
2.1 mm Male Jacks							
101178EA	PP014	10.9 x 9.0 x 14.5	1/C	1/A	2.1 mm female	\$.49	\$.44
151554EA	DPJ-026	15.1 x 8.0 Dia.	2/D	1/A	2.1 mm female	1.49	1.25
159610EA	PJ1014A	35.8 x 12.6 Dia.	3/E	2/A	2.1 mm female	1.49	1.25
2.5 mm Male Jacks							
207714EA	HEC0470	11.0 x 9.0 x 14.5	1/C	1/B	2.5 mm female	\$.45	\$.35
101186EA	PP014A	11.0 x 9.0 x 14.5	1/C	1/A	2.5 mm female	.65	.59
151562EA	DPJ-026A	15.1 x 8.0 Dia.	2/D	1/A	2.5 mm female	1.49	1.24
159505EA	PJ1015A	35.8 x 12.6 Dia.	3/E	2/A	2.5 mm female	1.49	1.35



Terminals	Code
Solder eyelet	A
PC board	B

Mounting	Code
PCB	C
Panel & PCB	D
Cable	E

Component Grab Bags

- Use our 20-drawer cabinet with labels to store your components, P/N 81701EA, pg 54
- Opened grab bags are not returnable

Cabinet – 81701EA

**Capacitors**

135394EA



Wt. (lbs.) 1 10

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
135394EA	GB102LB*	1.5 lb. assorted (300 pcs) electrolytic caps. radial, axial, snap (photo above)	1.5 ...	\$12.95	\$11.49
17945EA	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	9.95	8.95

Integrated Circuits

135280EA



Wt. (lbs.) 1 10

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
135280EA	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0 ...	\$16.95	\$14.95
145242EA	GB109LB*	2 lb. (300 pcs) asst. linear series (LM300, 500, 700, 7800, 7900 reg.)	2.0	16.95	14.95

LEDs

18041EA



Wt. (lbs.) 1 10

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18041EA	GB110	100 assorted sizes & colored LEDs (T1/T1 1/4 round and rectangular)	0.1	\$6.95	\$6.29
18323EA	GB186	500 asst. sizes #18041EA LEDs	0.3	19.95	17.95
135271EA	GB110LB*	1 lb. (1900 pcs) asst. #18041EA LEDs	1.0	44.95	40.95

1/4W Resistors

Wt. (lbs.) 1 10

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
135351EA	GB116LB*	1 lb. (2000 pcs) asst. 1/4W resistors	1.0 ...	\$14.95	\$13.49

*LB grab bag quantities are approximate

Hardware Assortment

- 2-56 • 4-40 • 6-32 • 8-32 • Screws
- Nuts • Washers • Steel • Brass • Lock Washers • Aluminum • Plastic

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
171635EA	GB149LB*	3 lbs. (1400 pcs) assorted types of screws	3.0	\$12.95	\$11.49

Schwab's School Selection

A selection of Jameco's nine most popular Grab Bags, all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommends a 20-drawer component cabinet with labels (81701EA photo above) for storage.

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, switches, LEDs, 1/4W resistors, spacers and standoffs.

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
163213EA	GB197	Schwab's School Selection	3.3	\$39.95	\$34.95
81701EA	CAB20	20-drawer component cabinet	4.7	15.95	13.95

Surprise Component Grab Bag

Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, connectors, sockets, thermistors, LEDs, resistor networks, diodes, ICs, standoffs, transistors, oscillator/resonators, inductors, crystals, resistors, pots and switches (1075 pcs).

Part No.	Cross Ref. No.	Description	1	10
135263EA	GB191LB*	3 lbs. electronic components	\$17.95	\$15.95

*LB grab bag quantities are approximate

Kits include the Most Popular Components and a Cabinet with extra drawers for your Customized Expansion

20-drawer
component
cabinet with
every kit!

84970EA (IC kit)

84996EA (LED Kit)

81832EA
(Resistor kit)

Need a refill?
Just call
1-800-831-4242

Each Kit includes a 20-Drawer Component Cabinet (81701EA), 20 clear plastic drawers (85454EA), 20 clear dividers (85446EA), 30 adhesive labels for drawers to identify parts in kit, and all the Electronic Components listed in each kit.

• Cabinet size: 6.0"L x 15.0"W x 7.9"H • Drawer size: 5.5"L x 2.7"W x 1.5"H • Weight: 4.6–6.4 lbs. • Cabinet: ABS-Black • Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.

4000 Series CMOS IC Kit

Includes 300 pcs. (25 types) CD4000 Series Integrated Circuits

SAVE \$29

10 each	10 each	10 each	10 each	20 each
CD4015	CD4024	CD4051	CD4093	CD4001
CD4016	CD4027	CD4069	CD4511	CD4011
CD4017	CD4040	CD4070	CD4538	CD4013
CD4020	CD4046	CD4071	CD4543	CD4049
CD4023	CD4050	CD4081	CD4584	CD4066

Part No.	Description	Wt. (lbs.)	1	10
84970EA	300 pcs. 4000 series CMOS IC kit	6.1	\$79.95	\$71.95
130403EA	Refill for 84970EA (300 pcs.)	1.4	58.95	52.95

7400 Series IC Kit

Includes 350 pcs. (30 types) 7400 (TTL) Integrated Circuits

SAVE \$68

10 each	10 each	10 each	10 each	10 each	20 each
7402	7416	7438	74107	74157	7400
7405	7417	7447	74123	74160	7404
7408	7420	7470	74132	74174	7406
7410	7430	7485	74151	74175	7407
7414	7432	7495	74153	74279	7474

Part No.	Description	Wt. (lbs.)	1	10
84953EA	350 pcs. 7400 series IC kit	6.2	\$139.95	\$125.95

74LS Series IC Kit

Includes 420 pcs. (35 types) 74LS (TTL) Integrated Circuits

SAVE \$44

10 each	10 each	10 each	10 each	20 each
74LS05	74LS73	74LS125	74LS193	74LS00
74LS10	74LS75	74LS139	74LS240	74LS02
74LS11	74LS85	74LS151	74LS244	74LS04
74LS14	74LS86	74LS155	74LS245	74LS08
74LS20	74LS90	74LS157	74LS273	74LS32
74LS30	74LS93	74LS174	74LS373	74LS74
74LS47	74LS123	74LS175	74LS374	74LS138

Part No.	Description	Wt. (lbs.)	1	10
84961EA	420 pcs. 74LS series IC kit	6.7	\$119.99	\$107.99
130391EA	Refill for 84961EA (420 pcs.)	2.0	99.99	89.99

Linear Series IC Kit

Includes 480 pcs. (40 types) Linear Series Integrated Circuits

SAVE \$53

10 each	10 each	10 each	10 each	20 each
TL072CP	LM337T	LF412CN	ULN2803A	LM317T
TL074CN	LF353N	LMC555CN	NE5532	LM324N
TL082CP	LF356N	LM556N	7808T	LM339N
TL084CN	LM358N	LM723CN	78L12	LM741CN
MAX232CPE	LM386N-1	LM1458N	7815T	LM555CN
LM301N	LM386N-3	LM1488N	7905T	7805T
LM308N	LM393N	DS1489N	7912T	78L05
LM311N	LF411CN	ULN2003A	7915T	7812T

Part No.	Description	Wt. (lbs.)	1	10
84988EA	480 pcs. Linear IC kit	6.0	\$189.95	\$169.95
130411EA	Refill for 84988EA (480 pcs.)	1.3	179.99	159.99

Low Profile IC Socket Kit

Includes 300 pcs. (10 types) Solder tail (Tin) IC Sockets

SAVE \$18

10 each	20 each	20 each	50 each	50 each
22LP	18LP	28LP	8LP	16LP
24SLP	24LP	40LP	14LP	20LP

Part No.	Description	Wt. (lbs.)	1	10
85075EA	300 pcs. LP IC Socket kit	5.5	\$31.95	\$27.95

LEDs & LED Mounting Hardware Kit

See page 29 for photos and specs.

SAVE \$41

Includes 560 pcs. (20 types) LEDs and mounting hardware

10 each	10 each	10 each	10 each	100 each
LVG2043	HPQLMPD141	LSG2040	LG3330	LMH100
LH2043	CLF280CTP	LY2040	LY3330	LMH200
LT0333-41	LTL-425B	LA93B/G-1	LFH3360	LR2040
LG3333	LHG3392	LA93B/H-1	LEG3362	LR3330

Part No.	Description	Wt. (lbs.)	1	10
84996EA	560 pcs. LED & Hardware kit	5.0	\$59.95	\$49.95

1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/8-watt 5% Resistors

SALE

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2Ω	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
108329EA	540 pcs. 1/8-watt Resistor kit	4.9	\$24.95	\$22.49
108302EA	Refill for 108329EA (540 pcs.)	0.2	12.95	11.49

1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/4-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.2kΩ	2.7kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	1.5kΩ	3.3kΩ	20kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2kΩ	5.1kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.2kΩ	5.6kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
81832EA	540 pcs. 1/4-watt Resistor kit	4.9	\$27.95	\$24.95
103165EA	Refill for 81832EA (540 pcs.)	0.2	12.95	11.49

1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/2-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2kΩ	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
107879EA	540 pcs. 1/2-watt Resistor kit	5.1	\$29.95	\$26.95
107852EA	Refill for 107879EA (540 pcs.)	0.4	14.95	13.49

Kits include the Most Popular Components and a Cabinet with extra drawers for your Customized Expansion



81875EA (Capacitor Kit)

Each Kit includes a 20-Drawer Component Cabinet (81701EA), 20 clear plastic drawers (85454EA), 20 clear dividers (85446EA), 30 adhesive labels for drawers to identify parts in kit, and all the Electronic Components listed in each kit.

20-drawer
component
cabinet with
every kit!

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Cabinet: ABS-Black
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Weight: 4.6 to 6.4 lbs.
- Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.

Need a refill?
Just call
1-800-831-4242



108433EA (Hardware Kit)

1/2-Watt Single Turn Cermet Pot Kit

Includes 100 pcs. (10 values) 1/2-watt
Linear Taper Potentiometer

SAVE \$14

10 each	10 each	10 each	10 each	10 each
63P500Ω	63P5kΩ	63P500kΩ	63P1kΩ	63P50kΩ
63P2kΩ	63P20kΩ	63P1MΩ	63P10kΩ	63P100kΩ
Part No.	Description	Wt. (lbs.)	1	10
85032EA	100 pcs. single turn Pot kit	4.9	\$65.95	\$58.95

3/4-Watt 15 Turn Cermet Pot Kit

Includes 100 pcs. (10 values) 3/4-watt
Linear Taper Potentiometer

SAVE \$27

10 each	10 each	10 each	10 each	10 each
43P500Ω	43P5kΩ	43P500kΩ	43P1kΩ	43P50kΩ
43P2kΩ	43P20kΩ	43P1MΩ	43P10kΩ	43P100kΩ
Part No.	Description	Wt. (lbs.)	1	10
85041EA	100 pcs. 15 turn Pot kit	4.9	\$87.95	\$78.95

Switch Assortment Kit

Includes 150 pcs. (15 types) Pushbutton,
Slide, Dip & Toggle Switches

SAVE \$52

10 each	10 each	10 each	10 each	10 each
206-4	JMT121	JMT223	MPC221	MS103
206-8	JMT123	MPC121	MPC223	SDTX620K
JMT113	JMT221	MPC123	MS102	SW153
Part No.	Description	Wt. (lbs.)	1	10
85059EA	150 pcs. Switch kit	5.0	\$98.95	\$88.95

Hardware and Spacer Assortment Kit

Includes 2300 pcs. (23 types) Spacers, Nuts,
Flat, Tooth & Lock Washers and Slotted PH Screws

SAVE \$21

100 each	100 each	100 each	100 each	100 each	100 each
Spacers	Hex nuts	Flat	Int. tooth	Split lock	PH machine screws
—	2-56	—	—	#2	2-56 x 1/4, —
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/2, —
Part No.	Description	Wt. (lbs.)	1	10	
108433EA	2300 pcs. Hardware kit	7.5	\$59.95	\$53.95	
130497EA	Refill for 108433EA (2300 pcs.)	2.7	39.95	35.95	

Ceramic Disc Capacitor Kit

Includes 520 pcs. (10 values) 50V ±20% Ceramic Disc Capacitors

SAVE \$19

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022μF	.01μF
22pF	100pF	.001μF	.047μF	.1μF
Part No.	Description	Wt. (lbs.)	1	10
81859EA	520 pcs. Ceramic Capacitor kit	5.0	\$32.95	\$29.95
130232EA	Refill for 81859EA (520 pcs.)	0.3	17.95	16.49

Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 types) 50V ±20% Monolithic Ceramic Capacitors

SAVE \$5

10 each	10 each	10 each	10 each	100 each
22pF	.001μF	.047μF	.47μF	.01μF
100pF	.0022μF	.22μF	1μF	.1μF
Part No.	Description	Wt. (lbs.)	1	10
171475EA	280 pcs. Monolithic Capacitor kit	5.0	\$34.99	\$31.49
171483EA	Refill for 171475EA (280 pcs.)	0.3	17.95	15.95

Radial Electrolytic Capacitor Kit

Includes 240 pcs. (15 values) ±20% Radial Electrolytic Capacitors

SAVE \$10

10 each	10 each	20 each	20 each	20 each
100μF @ 50V	1000μF @ 16V	1μF @ 50V	3.3μF @ 50V	22μF @ 50V
220μF @ 25V	2200μF @ 25V	1μF @ 100V	4.7μF @ 50V	47μF @ 50V
470μF @ 25V	3300μF @ 25V	2.2μF @ 50V	10μF @ 50V	100μF @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81867EA	240 pcs. Radial Capacitor kit	5.3	\$32.95	\$29.95
130331EA	Refill for 81867EA (240 pcs.)	0.5	17.95	16.49

Axial Electrolytic Capacitor Kit

Includes 140 pcs. (10 values) ±20% Axial Electrolytic Capacitors

SAVE \$13

10 each	10 each	10 each	20 each	20 each
47μF @ 50V	220μF @ 50V	1000μF @ 25V	1μF @ 50V	10μF @ 50V
100μF @ 50V	470μF @ 50V	2200μF @ 16V	4.7μF @ 50V	2.2μF @ 50V
Part No.	Description	Wt. (lbs.)	1	10
81875EA	140 pcs. Axial Capacitor kit	5.3	\$39.99	\$35.99
130340EA	Refill for 81875EA (140 pcs.)	0.6	24.95	22.49

Mylar Capacitor Kit

Includes 280 pcs. (10 values) 100V ±10% Mylar Capacitors

SAVE \$9

10 each	10 each	10 each	10 each	100 each
.001μF	.022μF	.047μF	.47μF	.01μF
.0047μF	.033μF	.22μF	1μF	.1μF
Part No.	Description	Wt. (lbs.)	1	10
81883EA	280 pcs. Mylar Capacitor kit	5.1	\$39.99	\$35.99
130358EA	Refill for 81883EA (280 pcs.)	0.3	19.95	17.95

Dipped Tantalum Capacitor Kit

Includes 150 pcs. (15 values) ±20% Dipped Tantalum Capacitors

SAVE \$50

10 each	10 each	10 each	10 each	10 each
.1μF @ 35V	1μF @ 25V	3.3μF @ 35V	10μF @ 16V	22μF @ 16V
.22μF @ 35V	1μF @ 35V	4.7μF @ 35V	10μF @ 35V	33μF @ 25V
.47μF @ 35V	2.2μF @ 16V	6.8μF @ 35V	15μF @ 25V	47μF @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81841EA	150 pcs. Tantalum Capacitor kit	4.8	\$74.95	\$67.95
130260EA	Refill for 81841EA (150 pcs.)	0.3	59.95	53.95

Transistor Assortment Kit

Includes 560 pcs. (20 types)

SAVE \$11

NPN, PNP (High/Medium/Low Power) Transistors

10 each	10 each	10 each	10 each	100 each
2N2222A	2N4401	MJE3055T	TIP31A	2N3904
2N2907A	2N4403	MPF102	TIP32A	2N3906
2N3053	2N5951	MPSA06	TIP102	PN2222
2N3055	2N7000	MPSA13	TIP120	PN2907
Part No.	Description	Wt. (lbs.)	1	10
82595EA	560 pcs. Transistor kit	5.1	\$87.95	\$78.95
130374EA	Refill for 82595EA (560 pcs.)	0.4	77.95	69.95

Diode Assortment Kit

Includes 420 pcs. (15 types)

SAVE \$3

Zener, Switching and Silicon Rectifiers

10 each	10 each	10 each	10 each	100 each
1N270	1N4001	1N4735	1N5408	1N914
1N751	1N4007	1N4742	C106B1	1N4004
1N3600	1N4733	1N5404	KBPO4M	1N4148
Part No.	Description	Wt. (lbs.)	1	10
82587EA	420 pcs. Diode kit	5.0	\$43.95	\$39.95
130366EA	Refill for 82587EA (420 pcs.)	0.3	28.95	26.49

The Microcontroller Idea Book

The Idea Book introduces low end embedded microcontroller design. It provides practical designs for use with data loggers, controllers and small computer applications. (277 pages, 1997)

- Circuits, programs and applications featuring the 8052-BASIC single chip computer



Part No.	Description	Price
126375EA	Micro. Idea Book	Was \$24.95 \$25.85

Practical Electronics Book for Inventors

McGraw-Hill Provides information needed for practical use in a format you can understand. With hand-drawn illustrations, this learn-as-you-go guide shows you what a particular device does, looks like and compares with other similar devices. Provides an easy-to-understand overview of basic components, resistors, diodes, capacitors, inductors, rectifiers, amplifiers, voltage regulators, discrete passive and active devices and so on. (604 pages, 2000)



Part No.	Description	Price
174529EA	Practical Electronics	\$39.95

IC Projects for Hobbyist and Technicians

Prompt Publishing Written for hobbyists and technicians who are interested in projects for integrated circuits – projects that you will be able to breadboard quickly and test easily. (212 pages, 1997)



Part No.	Description	Price
143271EA	IC Projects Book	\$26.95

Programming & Customizing PICmicro Microcontrollers

Second Edition

McGraw-Hill Details the features of the PICmicro® and how to use these embedded chips to access and control many different devices. Shows what happens within the PICmicro® when an instruction is executed and how it interfaces with external devices. (1190 pages, 2001)

Includes: CD-ROM and PIC PCB



Part No.	Description	Price
183046EA	PICmicro Programming	\$49.95

The Microcontroller Application Cookbook - Volume 2

Woodglan Press - Building on the foundations laid on the first volume, this volume contains schematics with complete part numbers as well as sample "code snippets" that demonstrates how each circuit works. This book focuses on the actual circuits and components, leaving the theory process behind and providing you the practical creation of a working circuit. The author has acknowledged Jameco Electronics for providing the components necessary in creating the circuits. (248 pages, 2002)



Part No.	Description	Price
212847EA	Microcontroller Cookbook Vol 2	\$29.95
181681EA	Microcontroller Cookbook Vol 1 Was \$29.95	\$26.95

BASIC Stamp Data Book

Newnes Publishing Covers both the hardware and software of the Parallax BASIC stamp I and II microprocessor operation and design. The basic stamp is built on PC microcontroller hardware and uses PBASIC as its programming language which makes it simple to use and modify for beginners and professionals. (305 pages, 2000)



Part No.	Description	Price
143651EA	Basic Stamp Data Book	Was \$34.95 \$31.95

PIC Microcontroller Project Book Comprehensive Beginner's Guide

McGraw-Hill Provides you with hands-on directions for putting Microchip's RISC-based chips with up to 8k of memory to work. Starting with simple projects and experiments, this book leads you gradually into sophisticated programming techniques. Provides you guidance on getting the equipment you need and programming your chip. (203 pages, 2000)



Part No.	Description	Price
174650EA	PIC Beginner's Guide	\$29.95

Electric Motors and Control Techniques

TAB Publishing

Explains how different types of motors operate, and how electronic control devices can be used to improve efficiency in a wide range of applications. (294 pages, 1994)



Part No.	Description	Price
137162EA	Electric Motors & Control	\$24.95

Robot Builder's Bonanza

TAB Publishing

This fascinating guide offers you a complete, unique collection of tested and proven project modules that you can mix and match to create an almost endless variety of highly intelligent and workable robot creatures. (753 pages, 2001)



Part No.	Description	Price
137171EA	Robot Builder's Bonanza	\$23.95

Serial Port Complete

Lakeview Research

RS-232 and RS-485 are the most versatile, inexpensive interfaces for linking, but the hardware and programming are often misunderstood. This book provides you with everything you need to design, program, install and troubleshoot the links you set up. (306 pages, 1998)



Includes: 3.5" diskette

Part No.	Description	Price
154771EA	Serial Port Complete	\$39.95

Everything You Need To Develop Custom USB Peripherals Book

Lakeview (2nd Edition)

This USB Complete book provides an easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware, how the host communicates and more. (523 pages, 1999)



Part No.	Description	Price
171900EA	Complete USB Book	\$49.95

Programming and Customizing 8051 Microcontrollers

McGraw-Hill Provides you with a complete understanding of the 8051 chip compatibles along with all the information needed to design and debug applications and control many different devices. Includes over 30 experiments, 12 projects and CD-ROM featuring source code and PDF data sheets. (541 pages, 1999)



Part No.	Description	Price
161402EA	Program/Customizing	\$29.99

Oscilloscope Guide Book

Prompt Publishing This book's full illustrations and diagrams bring oscilloscopes to life. Learn how to use them to conduct many tests and measurement techniques. This book answers questions about various types of oscilloscopes and how to obtain useful test results. (214 pages, 2001)



Part No.	Description	Price
185404EA	Oscilloscope Guide Book	\$29.95

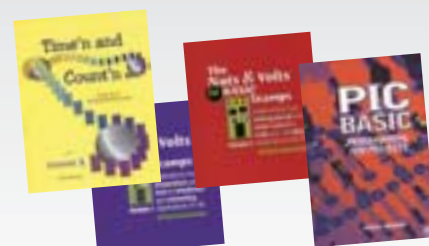
TTL Logic Data Book

Texas Instruments Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages, 1988)



Part No.	Description	1	10
88225EA	TTL Logic Data Book	\$34.95	\$31.49

Jameco offers a wide variety of books. See our website for the complete selection.



More Books @ www.Jameco.com

Miniature Toggle Switches

- Mounting hole diameter: 1/4"

Includes: Mounting hardware



Fig. 1



Fig. 2

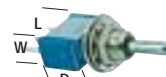


Fig. 3



Fig. 4

Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type () Momentary	Size (L" x W" x D")	Lead Spacing (A"/B"/C")	Contact Rating (A @ VAC)	Lead Type	Lever Type	1	10
76523EA	JMT113	1	2	SPST on-off	.52 x .32 x .38	— .185 —	6 @ 125 & 3 @ 250	Solder lugs	Round	\$1.15	\$1.03
21936EA	JMT123	3	3	SPDT on-on	.52 x .32 x .38	— .185 —	5 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.03
21910EA	JMT121	3	3	SPDT on-off-on	.52 x .32 x .38	— .185 —	5 @ 125 & 2 @ 250	Solder lugs	Round	1.35	1.25
22832EA	LFH123	3	3	SPDT on-on	.52 x .28 x .36	— .185 —	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.15	1.05
75854EA	SWM132	3	3	SPDT on-on	.52 x .32 x .38	— .185 —	6 @ 125 & 3 @ 250	Solder lugs	Round	1.19	1.09
75889EA	SWM129	3	3	SPDT (on)-off-(on)	.52 x .32 x .38	— .185 —	6 @ 125 & 3 @ 250	Solder lugs	Round	1.69	1.55
26315EA	MPC121	3	3	SPDT on-off-on	.52 x .32 x .37	— .185 —	5 @ 125 & 2 @ 250	PC	Round	1.29	1.19
75871EA	SWM145	4	3	SPDT on-on	.52 x .32 x .38	— .185 .20	6 @ 125 & 3 @ 250	PC right angle	Round	1.49	1.35
21979EA	JMT223	2	6	DPDT on-on	.52 x .52 x .38	.20 .185 —	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.29
22859EA	LFH223	2	6	DPDT on-on	.52 x .52 x .38	.20 .185 —	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.29	1.19
75900EA	SWM133	2	6	DPDT on-on	.52 x .52 x .38	.20 .185 —	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35
21952EA	JMT221	2	6	DPDT on-off-on	.52 x .52 x .38	.20 .185 —	6 @ 125 & 3 @ 250	Solder lugs	Round	1.29	1.16
75951EA	SWM130	2	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20 .185 —	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35
26358EA	MPC221	2	6	DPDT on-off-on	.52 x .52 x .38	.20 .185 —	5 @ 125 & 2 @ 250	PC	Round	1.19	1.09

Subminiature Toggle Switches

- Mounting hole diameter: 7/32"
 - Pre-tinned leads
 - Metal construction
- Includes: Mounting hardware

Fig. 1

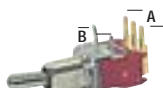


Fig. 2

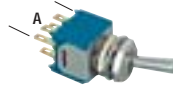
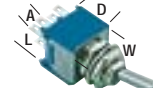


Fig. 3



Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type	Size (L" x W" x D")	Lead Spacing (A"/B")	Contact Rating	Lead Type	Lever Type	1	10
106067EA	SWP124	1	3	SPDT on-on	.25 x .33 x .40	.20 .10	30mA @ 5VDC	PC right angle	Round	\$1.99	\$1.83
72160EA	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10 —	1.5A @ 250VAC	Solder lugs	Round	1.29	1.24
75969EA	SWM136	2	3	SPDT on-on	.33 x .21 x .33	.10 —	3.0A @ 125VAC	Solder lugs	Round	1.55	1.44
72557EA	SW1502	2	3	SPDT on-off-on	.33 x .21 x .33	.10 —	1.5A @ 250VAC	Solder lugs	Round	1.35	1.25
138907EA	SW1503	2	6	DPDT on-off-on	.36 x .37 x .33	.10 —	3.0A @ 120VAC	Solder lugs	Round	1.29	1.05
75977EA	SWM137	3	6	DPDT on-on	.33 x .37 x .33	.17 .10	1.5A @ 250VAC	Solder lugs	Round	1.29	1.05

Pushbutton Switches

- Contact rating: 3A @ 125VAC
- 2-pins
- Lead type: solder terminal

Mountain
Switch

Miniature Soft Touch Switch

Part No.	Product No.	Fig.	Type () Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	1	10
164486EA	DS463R	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	\$1.64	\$1.58



Fig. 1

Standard Touch Switch

Part No.	Product No.	Fig.	Type () Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	1	10
164582EA	DS016B	2	SPST off-(on)	.88"L x .46"Dia.	.220"	.354"	Black	\$1.49	\$1.39



Fig. 2

Pushbutton Switches

- Pins: 2
- Normally open and closed configurations
- Momentary action pushbutton switches

Includes: Mounting hardware

Figure 1

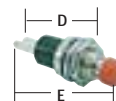
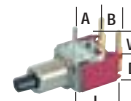


Figure 2



Part No.	Mfr. Cross Ref. No.	Fig.	Mount Hole Dia.	Type () Momentary	Size (L" x W" x D")	Lead Spacing (A"/B")	Contact Rating	Terminal Type	Button Color	1	10
26622EA	MS102	1	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	— .14	3A @ 125VAC	Solder lugs	Red	\$.55	\$.50
26649EA	MS103	1	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	— .17	3A @ 125VAC	Solder lugs	Black	.55	.50
71642EA	SWB210	2	7/32"	SPST off-(on)	.33 x .36 x .20	.20 .20	1A @ 120VAC	PC right angle	Black	2.19	1.99

Tactile Switches

- Bounce time: 10 msec.
- SPST momentary ON
- Contact resistance: 100mΩ

Part No.	Mfr. Cross Ref. No.*	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating	Lead Type	Button Color	Pricing	
				L	W	D	C	A"	B"				1	10
122972EA	DS1212	1	4	.47	.47	.18	—	.20	.50	20mA @ 15VDC	PC	Black	\$.26	\$.23
155379EA	KRS-1273B	2	4	.47	.47	.14	.14	.17	.53	50mA @ 12VDC	PC	Brown	.39	.35

*Manufacturer cross reference number and manufacturer may vary

Figure 1

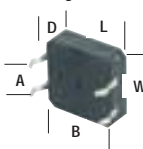
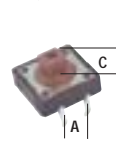
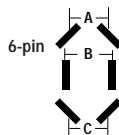


Figure 2



Full Size Toggle Switch

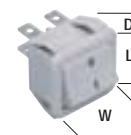
- Contact rating: 10A @ 125 VAC & 6A @ 250VAC
 - Full-size round lever
 - Keyed plate indicates switch position
 - Lead type: screw lugs
 - Type: DPDT on-on
 - Medium duty
 - Panel mount
- Includes: Mounting hardware and on/off plate



Part No.	Mfr. Cross Ref. No.	Mount Hole Dia.	Dimensions	Lead Spacing (A/B/C)	1	10
158078EA	JKN3CC	0.5"	1.9"L x .76"W x .73"D	.44" x .59" x .44"	\$1.75	\$1.59

PC Rocker Switch

- For mini-tower cases
- DPST
- Contacts rated at 250VAC
- UL/CSA approved
- Size: 0.9"L x 1.2"W x 1.4"D



Part No.	Description	Current	1	10	100
127028EA	PC rocker	10A	\$2.95	\$2.69	\$2.39

Excell Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Terminals: PC pin leads
- Life: 10,000 cycles min.
- Material: 94V-0 grade, UL approved fire retardant plastic
- Ma. switching load rating: 25mA @ 24VDC
- Op force: 500g-cm ma.



139635EA



139651EA

Part No.	Product No.	Position	Adjust	Code Type	W" x D" x H"	1	10
139635EA	ERD110RS(DRD10)	10	top	BCD	0.39 x 0.39 x 0.20	\$2.59	\$2.33
139651EA	ERD116RS	16	top	Hex	0.39 x 0.20 x 0.39	2.75	2.49

Magnetic Reed Switches

- NO (normally open) • Contact form: SPST
- Rating: 500mA @ 100VDC
- Rating: 1A @ 250VAC; 1A @ 50VDC



164081EA

Part No.	Product No.	Size (length includes leads)	1	10
171871EA	MKA141011015	1.73"L x 0.1"Dia.	\$.79	\$.64
164081EA	MRS1	2.35"L x 0.2"Dia.	.79	.63

SPST Round Keylock Switch

- Used in computer & other security systems
- Key removable from 2 positions
- Voltage: 125VAC • Current: 3A
- Two keys • Style SPST
- Terminal: barrel • Length: .55"
- Number flat: 2 • Diameter: .21"
- Mounting hole: 0.5"



Includes: Mounting nut

Part No.	Mfr. Cross Ref. No.	1	10
106649EA	KS4B	\$3.59	\$3.29

DIP Switches



109057EA



38818EA



38842EA



38797EA

- Switch contacts: SPST • Switches are numbered
- 50VDC @ 100mA • Molded construction
- Standard switches have raised lever
- LP switches are flush to casing • Pre-tinned leads

Compatible Socket Chart, see website for Sockets

Switch	Socket	Switch	Socket	Switch	Socket
109057EA	112192EA	38826EA	37161EA	38797EA	38607EA
38818EA	51570EA	38842EA	37372EA		

Part No.	Mfr. Cross Ref. No.*	Pos.	1	10
109057EA	206-2	2	\$4.85 \$.75	\$.68
38818EA	206-4	4	.65	.55
38826EA	206-6	6	.99	.89
38842EA	206-8	8	.89	.80
38797EA	206-10	10	.95	.86

* Manufacturer Cross Reference number and manufacturer may vary

Jameco's Low-Price Guarantee

Rotary Switches

- Panel mount
- Make before break
- Solder lugs
- Layers: 1
- Contact rating: 30VDC @ 0.3A
- Insulation resistance: 10MΩ min.
- Contact resistance: 30mΩ
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer (except for P/N 101565EA – plastic casing)
- Mounting hole diameter: 3/8"
- Lug size: 0.07" • Shaft size: 0.46" x 0.25"
- 101565 : Shaft size: 1.16" x 0.25"



101573EA

SALE

Includes: Washer and nut

Part Number	Mfr. Cross Ref. No.*	Poles	Position	Pricing	
				1	10
101531EA	RS0261	1	12	\$1.29	\$1.10
101573EA	RS022	2	6	1.35	1.15
101565EA	RS023	3	4	1.95	1.59
101557EA	RS024	4	3	1.09	.93

* Manufacturer Cross Reference number and manufacturer may vary

Over 99% of our products are in stock!

Place your order by 6PM EST for same business day shipment.

1-800-831-4242

www.Jameco.com

Slotted Optical Switch

- Type N package
- Input diode: forward voltage (V_F) – 1.60V (I_F=10mA); reverse current (I_R) – 100μA (V_R = 3.0V)
- Output phototransistor: breakdown voltage (V_{BR CEO}) = 30V min.; collector-emitter dark current (I_{CEO}) – 100nA (V_{CE} = 5V)
- Coupled: saturation voltage (V_{SAT}) – 0.40V (I_F = 10mA; I_C=100μA) gap unblocked



SALE

Part No.	Product No.	1	10
189481EA	OPB660N	Was \$2.95 \$1.99	\$1.79

12-Button Telephone Keypads

- White plastic
- 8-pin .100" header
- Tactile type keypad
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.8"W x 0.6"H



153488EA

Part No.	Description	1	10
190561EA	Numeric keypad	\$8.75	\$7.45
153488EA	Alpha numeric keypad	9.49	8.55

16-Button Numeric Keypad

- 4 x 4 matrix keypad
- 8-position solder pad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key
- Size: 3.0"L x 2.8"W x 0.6"H



Part No.	Description	1	10
169244EA	Numeric keypad	\$7.95	\$6.95

16-Button Indoor/Outdoor Keypads

- 9-pin 0.100" headers
- Fully sealed snap-dome contact
- For indoor or outdoor use
- Contact rating: 24VDC @ 10mA resistive
- Life test: 3,000,000 cycles per key
- Compatible with MOS, TTL and DTL (10Ω max.)
- Recommended connector: P/N 103190EA header and 100765EA pin
- Size (housing): 4.7"W x 1.7"H x 0.4"T



152063EA

* Prepackaged: please order in increments of 10

Part No.	Description	1	10
152063EA	4x4 matrix keypad	\$14.95	\$13.49
103190EA	Header housing (10-pin)	.42	.39
100765EA	Header pin (10 per pack)	*	.11



Click Action Basic Precision Switches

- 3 terminals: common; normal closed; normal open
- Dielectric strength: 1000VAC 50-60Hz for 1 min.
- Insulation resistance: 100MΩ min. (@ 500VDC)
- Type: NO-NC-common



159599EA



159572EA



159581EA

Part Number	Product Number	Description	Rating	Contact Resistance (initial)	Service Life		Terminals Type	Agency Approval	Pricing		
					Mechanically	Electrically			1	10	100
159599EA	SS0505A	Subminiature	5A @ 125VAC	30milliΩ max.	10 million	200,000	.127" quick discon.	UL	\$3.25	\$2.92	\$2.59
159572EA	VS10N051C	Micro (T90S1D12-12)	10A @ 250VAC	15milliΩ max.	10 million	100,000	.183" quick discon.	UL/CSA	2.89	2.54	2.28
159581EA	VS10N021C2	Micro	10A @ 250VAC	15milliΩ max.	10 million	100,000	.183" quick discon.	UL/CSA	2.45	2.25	1.99

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

Order 24/7 Toll Free 1-800-455-6119

Small High-Current PC Mount Relays

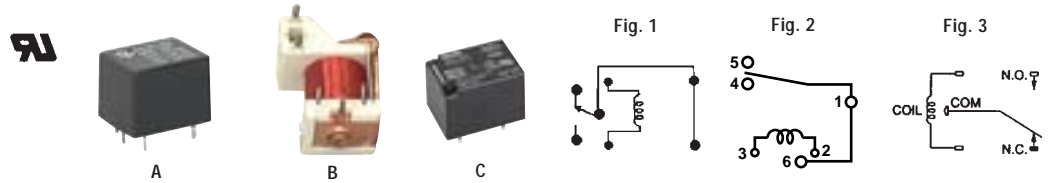
An inexpensive means of switching loads up to 30 amps. While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.

- Meets UL class F insulation standard
- Electrical life expectancy is 100,000 operations at rated loads

104926EA: Open frame relay

Part Number	Mfr. Cross Ref. No.	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing	
											1	10
174449EA	LU-5	T81H5D215	A1	SPDT	5VDC	125	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	\$1.79	\$1.66
104926EA	733SPDT12VDC*	T90N5D12-12	B2	SPDT	12VDC	155	240VAC/28VDC	20A/10A	6	1.2 x .90 x .63	1.85	1.69
172937EA	JS1-12V	T72M5D121-12	C3	SPDT	12VDC	400	125VAC/24VDC	10A/5A	5	.85 x .62 x .63	1.09	.99

* Manufacturer and Manufacturer Cross Ref. number may vary



DIP Relays

- Logic control levels
- Moisture resistant
- Compatible with IC sockets
- Long life with reliable operation
- Compact design/construction
- Excellent for PCB applications

SALE
Aromat

FUJITSU



EGE



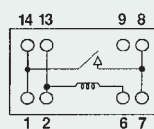
106462EA



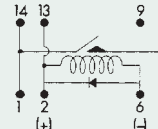
99901EA



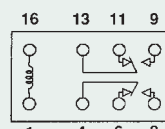
136549EA



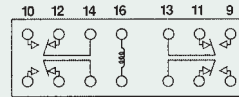
Schematic 1



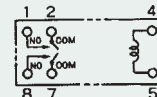
Schematic 2



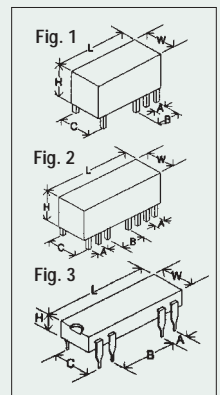
Schematic 3



Schematic 4



Schematic 5



Part Number	Mfr. Cross Ref. No.	Manufacturer	Contact Schem.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Fig.	Size L x W x H (in.)	Leads A x B x C (in.)	Pricing	
														1	10
106462EA	201A05	Excel Cell Elect.	1	SPST-NO	5VDC	500	100VDC	0.5A	8	37161EA	3	.78 x .25 x .20	.10 x .40 x .30	\$2.15	\$1.81
138430EA	201A05	Excel Cell Elect.	2	SPST-NO	5VDC	500	100VDC	0.5A	8	37161EA	3	.77 x .30 x .22	.10 x .40 x .30	2.29	1.95
106471EA	201A12	Excel Cell Elect.	1	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161EA	3	.78 x .25 x .20	.10 x .40 x .30	2.29	1.95
192760EA	5MBU-5	Fujitsu	5	DPST-NO	5VDC	35	240VAC/24VDC	5A	8	—	1	1.13 x .50 x .98	.17 x .76 x .28	1.95	1.75
173913EA	AZ831-2C-5DSE	American Zettler	3	DPDT	5VDC	125	125VAC/100VDC	.5A/1.25A	8	37401EA	1	.79 x .38 x .44	.18 x .28 x .29	2.35	2.15
139977EA	RSB5S	Shin Mei	3	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372EA	1	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25
99338EA	LM12C00	Clare	3	DPDT	6VDC	71	125VAC/100VDC	2A	8	37372EA	1	.79 x .40 x .43	.20 x .40 x .30	2.49	2.19
99901EA	LX200D00	Clare	3	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372EA	1	.79 x .40 x .30	.20 x .40 x .30	6.95	6.25
99320EA	LM12E00*	NEC	3	DPDT	24VDC	1110	125VAC/100VDC	2A	8	37372EA	1	.79 x .40 x .43	.20 x .40 x .30	2.95	2.69
136549EA	DS4E-M-DC5V*	Aromat	4	4PDT	5VDC	62.5	125VAC/30VDC	.6A/2A	14	112299EA	2	1.40 x .40 x .36	.20 x .30 x .30	5.49	4.95
176313EA	DS4E-M-DC12V	Aromat	4	4PDT	12VDC	360	125VAC/30VDC	.6A/2A	14	112299EA	2	1.40 x .40 x .36	.20 x .30 x .30	6.95	6.29

* Manufacturer and Manufacturer Cross Ref. number may vary

Potter & Brumfield Type Plastic Enclosed Construction Relay

- Dielectric strength: 500VDC (between contact and coil)
- Operating temperature: -35°C to +85°C
- Normally open (NO), normally closed (NC)
- Terminal type: quick connect
- Size: 1.1"L x 1.1"W x 1.0"H

VF4 Type Relays

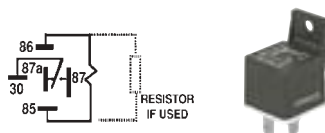
Part No.	Mfr. Cross Ref. No.	P&B Cross Ref.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	1	10
148582EA	LD12F	VF485F11	SPDT	12VDC	78	12VDC	40A	5	\$2.49	\$2.25

VF4 Type Socket with Coil Diode

- For use with P/N 148582EA (above)
- Contact voltage/current: 12V/20A
- 12 AWG: 2 black and 1 blue wire
- 18 AWG: 1 black and 1 red wire

- 7.5" wire
- Diode coil suppression

Part Number	Mfr. Cross Ref. Number	Description	1	10
170624EA	RSD03	Relay socket with coil diode (for P/N 148582EA, above)	\$2.35	\$2.15



SALE



59 More @ www.Jameco.com



Our complete selection of Relays and Relay Sockets is at Jameco.com.

General Purpose Relays

- DPDT • 8-pins
- Pin Type Terminals – Series 78
- Contact voltage: 240VAC
- Pin Type Terminals – Series 250
- Contact rating: 120/240VAC, 28VDC @ 10A
- Ambient temp. operating: -10°C to +50°C
- Size: 1.4"L x 1.4"W x 2.7"H



Number	Mfr. Cross Ref. Number	P & B Cross Ref.	Coil Voltage	1	10
Series 78					
172718EA	SCL12DPDT	K10-11D15-R	12VDC	\$4.99	\$4.49
Series 250					
139766EA	BTA1-2C-12VDC	R02-11D10-12	12VDC	\$9.49	\$8.55
139740EA	BTA1-2C-120VAC	R02-11A10-120	120VAC	9.95	8.79

Series 250 Sockets

Part No.	Voltage	Current	Pins	Size (lbs.)	1	10
141145EA	250VAC	20 amps	8	2.0"L x 1.6"W x 0.8"H	\$3.99	\$3.65
141153EA	250VAC	20 amps	11	2.0"L x 1.7"W x 1.2"H	5.19	4.85

Rayex General Purpose Relays

Potter and Brumfield Type LB2 Series

- DPDT • 8-pins
- Contact rating: 240VAC/30VDC @ 12A
- Mechanical life: 10,000,000 operations
- Electrical life: 100,000 operations min. at rated load



Part Number	Product Number	P & B Cross Reference	Coil Voltage	Pricing	
172718EA	SCL12DPDT	K10-11D15-12	12VDC	1	10
				\$4.99	\$4.49

Rayex LB2 Socket

- DIN rail snap socket for LB2 relays

Part Number	Product Number	P & B Cross Reference	Pins	Pricing	
175530EA	PTF08AA	27E895	8	1	10
				\$5.95	\$5.39



More @ www.jameco.com

See our website for a selection of Power PCB Relays.



DC/AC and DC/DC Solid State Relays

- Screw terminal with hardware
- Photo isolation
- Metal mounting base
- Manufacturer may vary



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Part No.	Product No.	Mfr.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Curr.	Pins	Fig.	Terminal Type	Agency Approval	Size (L" x W" x H")	1	10
Solid State Relays DC/AC Type														
162341EA	ESR51024-010 †	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	1	Screw Terminal	UL	2.3 x 1.7 x 1.1	\$15.95	\$14.39
162368EA	ESR51024-025 †	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	1	Screw Terminal	UL	2.3 x 1.7 x 1.1	21.95	19.79
105081EA	615-8500	Teledyne	3-32VDC	DC/AC	SPST	250VAC	10A	4	2	Screw Terminal	UL	2.3 x 1.7 x 1.1	15.99	14.39
164988EA	S101S02	Sharp	1.2VDC@20mA	DC/AC	—	125VAC	1.5A	4	3	Solder Lead	UL/CSA	0.9 x .16 x .63	3.95	3.49
164996EA	S202TA1	Sharp	1.2VDC@20mA	DC/AC	—	200VAC	2.0A	4	3	Solder Lead	UL/CSA	0.9 x .16 x .63	4.95	4.49
Solid State Relay DC/DC Type														
172591EA	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	4	Solder Lead	—	1.4 x 0.3 x 0.9	\$9.95	\$8.95
175222EA	KF0604D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	4	Solder Lead	—	1.5 x 0.3 x 0.9	11.95	11.25

† Zero crossing

Sensors

Ultrasonic Sensor Sets

- Use for motion or distance sensing
- Frequency: 40kHz ±1.0kHz
- Aluminum case

136653EA:

- Transmit/Receive Set
- Capacitance: 2000pF ±30%
- Case size: 0.47"H x 0.62" Dia.
- Transmitter: bandwidth 4.0kHz/112dB, sound pressure level 119dB/40±1.0kHz
- Lead length/spacing: 0.39"
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB/40±1.0kHz (0dB vs 1V µbar) R=3.9kΩ



136653EA

139491EA:

- Transmit/Receive Set
- Capacitance: 2000pF ±20%
- Lead length/spacing: 0.28"
- Transmitter: bandwidth 5.0kHz/100dB, sound pressure level 112dB/40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB/40 ±1.0kHz (0dB vs 1V µbar) R=3.9kΩ
- Case size: 0.30"H x 0.43"Dia.



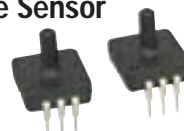
139491EA

Part No.	Mfr. Cross Ref. No.	1	10
136653EA	40TR16F	\$6.95	\$6.29
139491EA	40TR12B	6.95	6.29



-1.1 to 2.5 PSI Pressure Sensor

- Measurable pressure range: -1.1 to 2.5 PSI
- Maximum load pressure: twice of rated pressure
- Volt-level output
- Operating voltage: 5V @ <10mA
- Maximum excitation voltage: 8V
- Pressure type: gauge pressure
- Pressure media: non-corrosive gas
- On-chip amplification and temp. compensations
- Pre-calibration of offset voltage and span



SALE

Part No.	Product No.	1	10
196103EA	XFPN-025-KPGRNW1	\$24.95	\$21.25



0 to 5 PSI Pressure Sensor

- Maximum load pressure: 10 PSI
- Output voltage: 0 – 4.5V
- Operating voltage: 5V @ 10mA
- Pressure type: gauge pressure
- Pressure media: non-corrosive gas
- Accuracy: ±0.125 PSI at 25°C; ±0.250 PSI at -10 to 65°C
- High level output, on-chip signal conditioned, temperature compensated, and calibrated



Part No.	Product No.	1	10
173657EA	XFPN-050-KPGT1	\$15.95	\$14.35



0 to 1.45 PSI Pressure Sensor

- Typical full scale span @ 35mV: 0-10kPa (0-1.45 PSI)
- Maximum pressure (P_{max}): 75kPa (10.875 PSI)
- Operating volt. (typical): 3VDC @ 6mA
- Applications: air movement control, level indicators, leak detection, robotics and industrial controls
- 1/8" diameter tubing applicable
- Size: 0.7"Dia. x 0.78"Thick (with nozzle)

SALE



Part No.	Product No.	1	10
218827EA	MPX10GS	\$8.99	\$7.65

More Digital I/O and Sensor Modules

@ www.jameco.com

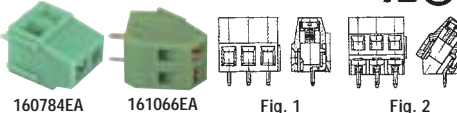
See our website for Jameco's complete selection of modules.

DINKLE .197" (5mm) Terminal Blocks

- PC mount
- Lead spacing: .197"
- Wire range: 12-24 AWG
- Contact rating: 300V @ 10A
- Insulation resistance: 500MΩ or more @ 500V
- Modular housing: end-to-end stackability
- Terminals interlocking with same series
- Materials: housing: polyimide; solder: tin plated brass

**DT Series****DT128 Type (Side Entry)** • Block size: .40"W x .55"H

Part No.	Terminal	Block Length	1	10
99426EA	2	0.4" .....	.72	\$.55
99397EA	3	0.6" .....	.99	\$.89

EK500 Series**EK500V Type (Side Entry)** • Block size: .40"W x .55"H

Part No.	Fig.	Terminal	Block Length	1	10
160784EA	1	2	0.4"	\$.65	\$.55

EK500A Type (45° Entry) • Block size: .48"W x .61"H

Part No.	Fig.	Terminal	Block Length	1	10
161066EA	2	2	0.4"	\$.75	\$.65

OST .197" (5mm) Vertical Terminal Blocks**Side Entry**

- Rated voltage (UL): 250V
- Rated current: 15A
- Wire size: 14-22 AWG • PCB hole diameter: .050"
- Spacing: .197" • Terminal block: copper zinc

Part No.	Terminal	Size (L"xW"xH")	1	10
189675EA	2	.42 x .30 x .37 ...	\$.79	\$.71
189667EA	3	.61 x .30 x .37 .....	.89	\$.80

OST .200" (5.08mm) Vertical Terminal Blocks**Side Entry**

- Rated voltage (UL): 250V
- Insulating material: polyamide
- Wire size: 14-22 AWG
- PCB hole diameter: .050"
- Wire guard: copper nickel
- Terminal block: copper zinc
- Spacing: .200" • Rated current: 15A

Part No.	Terminal	Size (L"xW"xH")	1	10
152346EA	2	.42 x .35 x .49	\$.65	\$.55
152354EA	3	.62 x .35 x .49 .....	.47	\$.44

European Terminal Blocks

- Voltage: 600V
- 1.2mm raised base • Number of poles: 12
- Working temperature: 230°F (110°C)
- Wire protector: stainless steel spring
- Material: Polyamide 66 (nylon 66), UL94V2, natural
- Terminal insert: brass metal alloy, nickel plated
- Screws: zinc plated, yellow chromed

Part No.	Prod. No.	Amps	AWG	1	10
215010EA	PA8H	20A	12-22	\$1.79	\$1.59
215028EA	PA10H	30A	10-22	1.89	1.69
215036EA	PA12H	35A	10-22	2.59	2.29

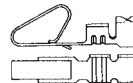
KULKA® 601 GP Series Double Row Terminal Block

- Height: .50"
- Width: 1.12"
- .437" (11 mm) centers
- Open block design
- Terminals: brass plated
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Screws: #6-32, binder head, phillips-slot
- Base: general purpose phenolic; 150°C • UL/CSA/CE

Part No.	Prod. No.	Poles	Dimensions A" B"	1	10
188701EA	601GP12	12	5.69 6.00 ..	\$5.49	\$4.95

More Terminal Blocks and Connectors @ www.Jameco.com**.156" (3.9mm) Center Crimp Pin**

- Use with .156" housings (below)
- Material: brass/tin plated
- Prepackaged: order in increments of 10 or 100



Part No.	Mfr. Cross Ref. No.	Pin Wire Gauge	10	100
78318EA	JS-5001-T	18-24 AWG	\$.11	\$.08

.156" (3.9mm) Center Housing Connectors

- Common to many power supplies carried by Jameco. Some power supplies (pgs 31-34) may require multiple connectors
- Housing material: nylon 66, UL94V-2
- Use with crimp pins, 78318EA, above
- * Prepackaged: order in increments of 10



Part No.	Mfr. Cross Ref. No.	Pins	1	10
104715EA	LCH4	4	*	\$.22
104731EA	LCH6	6 .....	.33	.30

0.098"-Pitch AT Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min. • Withstanding voltage: 1500V/min.

78300EA: AMP60G male 6-pin PCB mount connector

• Material of post: tin-plated brass • Diameter of post: .09"

78326EA: AMP50G female 6-pin housing connector • Material: nylon**78318EA: AMP501T terminal pin** • Material: tin-plated brass

* Prepackaged: order in increments of 10

Part No.	Description	L	W	H	Dia	Use With	1	10
78300EA	6-pin male connector	.93"	.37"	.57"	—	—	\$.45	\$.39
78326EA	6-pin housing connector	.94"	.25"	.74"	—	78300EA	.35	.31
78318EA	Power terminal pin, female	.69"	—	—	.09"	78326EA	*	.11

0.118"-Pitch ATX Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC
- Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min.
- Current rating: 7A AC/DC
- Withstanding voltage: 1500V/min.

147379EA: ATX male 20-pin edge mount connector

• Material: nylon 66, UL-94V0

147387EA: Housing Connector**147395EA: ATX power terminal pins**

• Material of post: tin-plated brass

• Material: nylon 66, UL-94V0

• Material: tin-plated brass

• Diameter of post: .045"

* Prepackaged: order in increments of 10

Part No.	Description	L	W	H	Dia	Use With	1	10
147379EA	20-pin male connector	1.7"	0.4"	0.6"	—	—	\$.59	\$.53
147387EA	20-pin housing connector	1.7"	0.4"	0.8"	—	147395EA	*	.19
147395EA	Power terminal pin, female	.59"	—	—	.068"	147387EA	*	.12

0.2"-Pitch Power Connectors & Pins

Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

Crimp Pin Specifications:

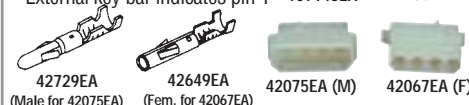
- Material: tin plated brass • Current rating: 1.5 amps
- Wire size range: 18-24 AWG • Use tool P/N 99442EA, pg 60

For 5.25" Disk Drives and Power Supplies

42075EA & 42067EA

Connector Housings:

- Keyed mating connectors
- External key bar indicates pin 1



- See web for extraction tools, P/N 131887EA & 131879EA
- Prepackaged: order in increments of 10 or 100

Part No.	Description	10	100
109145EA	4-pin M vert. PCB mtg	\$.59	\$.49
117567EA	4-pin M PCB mount, horiz. edge mount	.63	.55
42075EA	4-pin M housing	.12	.11
42067EA	4-pin F housing	.20	.15
42729EA	M crimp pin for 42075EA	.10	.07
42649EA	F crimp pin for 42067EA	.10	.07

For 3.5" Disk Drives and Power Supplies



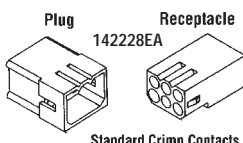
- Prepackaged: order in increments of 10 or 100

Part No.	Description	10	100
114930EA	4-pin F housing	\$.19	\$.17
114921EA	F crimp pin for 114930EA	.11	.095
Part No.	Description	1	100
114999EA	4-pin M rt. angle PCB mtg.	\$.35	\$.31

.093" Power Connector Kits

These assortment kits contain mating sets of housings and pins.

- Volt.: 250VAC
- Temperature range: -40°C to +105°C



- 142181EA: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts
- 142201EA: • 2 ea. 4-pin plugs & receptacles, 10 ea. F & M contacts
- 142228EA: • 2 ea. 6-pin plugs & receptacles, 14 ea. female and male contacts

Includes: Female & male tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

Part No.	Product No.	Current	1	10
142181EA	1545	12 Amps	\$4.95	\$4.49
142201EA	1490	9 Amps	5.69	5.15
142228EA	1261	9 Amps	5.25	4.75

.100" and 2mm Shorting Blocks

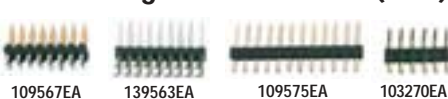
- Mates to .025" square posts on .100" centers
- Shorting socket jumper to address or code strip line plugs
- Mate with male headers
- Pin material: phosphor bronze
- Prepackaged: order in increments of 10 or 100

Open: open on top to allow for a test point while Closed: closed – functionally they are the same

Part No.	Description	Color	10	100
22023EA	Top open	Black	\$.12	\$.09
19140EA	Top closed	Black	.12	.09
112441EA	Top closed	Blue	.12	.09

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

.100" Straight Male Headers (Gold)



- Snap apart to fit your application
- Contact area: gold
- Contact material: phosphor bronze
- Current rating: 1 amp • Insulation: glass filled polyester
- Temp. range: -55°C to +120°C
- Solder to PC boards for instant plug-in access
- .025" square posts on a .100" x .100" matrix
- Use w/ crimp connector housing, pg 48

*Prepackaged: order in increments of 10 or 100

Single Row

Part No.	Mfr. Cross Ref. No.	Contacts	1	10
108337EA	SMH02	2	*	\$.16
109575EA	SMH03	3	*	.17
117559EA	SMH04	4	*	.17
153699EA	SMH06	6	*	.17
153701EA	SMH08	8	*	.20
103392EA	SMH10	10	*	.18
103376EA	SMH17	17	*	.16
103368EA	SMH20	20	*	.25
202825EA	SMH22	22	*	.25
103350EA	SMH25	25	*	.25
103341EA	SMH30	30	.35	.31
160881EA	SMH40	40	.49	.44

Double Row

Part No.	Mfr. Cross Ref. No.	Contacts	1	10
115027EA	923804DS	4	*	\$.10
115035EA	923806DS	6	*	.18
109516EA	923808DS	8	*	.18
67820EA	923810DS	10	*	.18
109567EA	923816DS	16	.55	.49
203844EA	923824DS	24	.70	.65
53495EA	923863DS	26	.70	.55
53532EA	923865DS	40	.65	.55
53559EA	923866DS	50	.60	.55
103405EA	923872DS	72	.85	.75
117196EA	923880DS	80	.90	.80

.100" Low-Profile Straight Male Shrouded Headers

- Features: UL recognized, CSA certified; .025" square post mates with sockets on .100" x .100" grid
- Contact: phosphor bronze, gold plated
- Material: glass filled polyester, gray, UL94V-0
- Use with IDC socket connectors, pg 48

Part No.	Description	1	10
67811EA	10-pin male shrouded header	\$.39	\$.35
68179EA	16-pin male shrouded header	.44	.40
68371EA	26-pin male shrouded header	.54	.42
181104EA	40-pin male shrouded header	.75	.60

.100" (2.5mm) Female Header Receptacles

- Gold plated contacts • 0.1" contact center
- Top entry • Vertical mount

Part No.	Contacts	Type	1	10
70754EA	8	Single row	\$.59	\$.53
200782EA	12	Single row	.79	.59
70720EA	16	Double row	.89	.79
70826EA	20	Double row	.99	.89
163862EA	34	Double row	1.19	1.05
111704EA	40	Double (Tin)	1.29	1.15



.100" Right Angle Male Headers Single Row

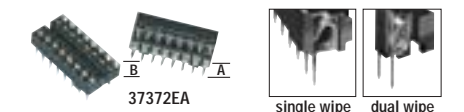
Part No.	Mfr. Cross Ref. No.	Contacts	1	10
103270EA	RMH36	36	\$.75	\$.64



.100" Right Angle Male Headers Double Row

Part No.	Mfr. Cross Ref. No.	Contacts	1	10
139563EA	923880DR	80	\$1.35	\$1.19

Solder Tail Low Profile Sockets



- Contact current: 1A
- Material: beryllium copper phosphor bronze
- Tin-plated contacts and tails
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)

SALE

Single Wipe

- Prepackaged: order in increments of 10 or 100

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	10	100
51570EA	8LP	8	0.3	\$.07	\$.06
37161EA	14LP	14	0.3	.09	.07
37372EA	16LP	16	0.3	.10	.09
38113EA	18LP	18	0.3	.11	.094
41110EA	40LP	40	0.6	.19	.17

Dual Wipe

- Prepackaged: order in increments of 10 or 100

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	10	100
112205EA	8LPD	8	0.3	\$.09	\$.08
112213EA	14LPD	14	0.3	.10	.075
112221EA	16LPD	16	0.3	.13	.115
112230EA	18LPD	18	0.3	.16	.14
112248EA	20LPD	20	0.3	.17	.14
112264EA	24LPD	24	0.6	.19	.16
112299EA	28SLPD	28	0.3	.21	.19
112272EA	28LPD	28	0.6	.21	.15
112301EA	32LPD	32	0.6	.18	.14

Over 99% of our products are in stock!

Place your order by 6PM EST for same business day shipment.

1-800-831-4242

www.Jameco.com

Machine Tooled Solder Tail
Low Profile Sockets

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Multiple contact elements
- Material: beryllium copper or phosphor bronze
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .177" (A) • Body height: .117" (B)

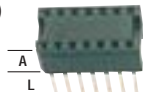


SALE

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10
51625EA	8MLP	8	0.3	\$.25	\$.22
37196EA	14MLP	14	0.3	.42	.38
37401EA	16MLP	16	0.3	.47	.43
65584EA	18MLP	18	0.3	.55	.49
38623EA	20MLP	20	0.3	.59	.55
39351EA	24MLP	24	0.6	.72	.65
114411EA	28SMLP	28	0.3	.85	.75
40328EA	28MLP	28	0.6	.83	.75
105380EA	32MLP	32	0.6	.95	.85
41136EA	40MLP	40	0.6	1.19	1.05
42059EA	48MLP	48	0.6	1.29	1.18
200707EA	64MLP	64	0.9	1.35	1.25

Level 2 & 3 Wire Wrap Sockets

- Contact plating/leads: gold (WW) or tin (TWW); Dual Wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .438" (L2); .638" (L3)
- Body height: .300" (A)



Gold (WW)

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10
37479EA	16WW2	16	0.3	\$1.75	\$1.59
38674EA	20WW2	20	0.3	2.25	1.99
37233EA	28WW2	28	0.6	1.49	1.35
40352EA	28WW2	28	0.6	2.19	1.99
41187EA	40WW2	40	0.6	3.15	2.80

Tin (TWW)

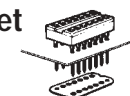
Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10
196841EA	14TWW3	14	0.3	\$.83	\$.71
37217EF	14TWW2	14	0.3	1.15	1.03
37436EA	16TWW2	16	0.3	.99	.89
75379EA	20TWW2	20	0.3	1.69	1.52
75424EA	28TWW2	28	0.6	1.89	1.63
41179EA	40TWW2	40	0.6	2.49	2.15

SALE

If you can't find what you're looking for log onto our website today for our complete selection of products.
Log on today!
www.Jameco.com

Wire Wrap Socket
I.D. Markers

- Plastic
- Quick identification of pin numbers
- Slips onto socket before wrapping
- Can easily write location, part number or function



Part No.	Prod. No.	Pins	Width (in.)	1	10
37145EA	14ID	14	0.3	\$.35	\$.31
40299EA	28ID	28	0.6	.65	.55

Level 3 Machine Tooled
Wire Wrap Sockets

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000MΩ
- Sleeve material: brass • Body height: .115" (A)
- Thru-hole lead length: .515" (L3)
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide



Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10
94473EA	8MSWW3	8	0.3	\$.53	\$.46
62050EA	14MSWW3	14	0.3	.93	.80
37410EA	16MSWW3	16	0.3	1.09	.93
38631EA	20MSWW3	20	0.3	1.33	1.14
94490EA	24MSWW3	24	0.6	1.60	1.38
40336EA	28MSWW3	28	0.6	1.69	1.43
94502EA	40MSWW3	40	0.6	2.66	2.28

PLCC Solder Tail Sockets

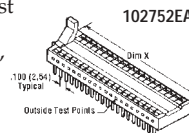
- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Thru-hole lead length: .125" • Body height: .375"



Part No.	Mfr. Cross Ref. No.	Pins	1	10
71811EA	G1P432	32	\$.55	\$.48
71618EA	G1P444	44	1.15	.99
71968EA	G1P468	68	1.15	.99

ARIES Low Profile ZIF Sockets

A low cost solution for ZIF test socket requirements. It has a height of only .319" (8.10mm), and even with the handle in open position measures just .554" (14.07mm).



- Strong rigid cast metal cam provides uniform action over entire contact area

Part No.	Aries No.	Pins	Dim X	1	10
102744EA	28-526	28	1.64"	\$5.49	\$4.99
102752EA	40-526	40	2.24"	6.95	6.39

ARIES Universal ZIF Sockets

- Solder directly to PCB or plug directly into IC socket
- Screw mounting holes for reliable operation
- Accepts .300" to .600" IC centers x .1" spacing



Part No.	Aries No.	Pins	1	10
103991EA	24-6554-10	24	\$7.49	\$6.79
104002EA	28-6554-10	28	8.45	7.39
104011EA	32-6554-10	32	9.95	8.49
104029EA	40-6554-10	40	11.25	9.80

D-Subminiature
Connector Hoods

- Use with D-sub solder cup and housing style connectors
- D Series: plastic hood with strain relief (gray)
- MD Series: metal coated plastic hood w/ strain relief
- Includes: Hardware

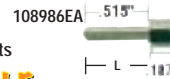


Part No.	Mfr. Cross Ref. No.	Conn.	1	10
15721EA	DB9H	9-pin	\$.49	\$.45
25620EA	MDB9H	9-pin	.59	.49
147740EA	DB9MH	9-pin	1.45	1.29
15018EA	DA15H	15-pin	.49	.45
25566EA	MDA15H	15-pin	.56	.44
15085EA	DB25H	25-pin	.45	.39
25603EA	MDB25H	25-pin	.59	.49

4-40 Mounting Screw Hardware
for D-Subminiature Connectors

4-40 x .187" Jack Screws

*Prepackaged: order in increments of 10 or 100



Part No.	Description	1	10
172603EA	.315"L jack screw	*	\$.14
102816EA	.435"L jack screw	.49	.46
108986EA	.515"L jack screw	.55	.50

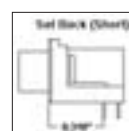
4-40 Screw Sets

16547EA: 4-40 x .187" jack screw (.31"L thread), washer, lock washer and nut set

102808EA: 4-40 screw (.30"L) and retainer set

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	10	100
16547EA	Screw/nut set	\$.31	\$.25
102808EA	Screw/retainer set	.35	.30

D-Subminiature Connectors
Right Angle PC Mount Connectors

0.318" Set Back

- Short style
- Lead length: .138"
- Lead spacing: .115"
- Shell: metal
- Current rating: 1A



Part No.	Mfr. Cross Ref. No.	Cont.	Gender	1	10
104942EA	DB9P318	9	M	\$.55	\$.50
104951EA	DB9S318	9	F	.60	.55
71124EA	DA15P318	15	M	.69	.59
77956EA	DA15S318	15	F	.79	.69
15149EA	DB25P318	25	M	.79	.65
15181EA	DB25S318	25	F	.89	.79

IDC Ribbon Cable Connectors

- Current rating: 1 amp
- Temp range: -55°C to +120°C
- Insulation material: glass-filled polyester
- Contact material: phosphor bronze
- Terminates with standard D-type connectors



Part No.	Mfr. Cross Ref. No.	Cont.	Gen.	Shell	1	10
109225EA	MDB9P	9	M	metal	\$.135	\$.125
12503EA	CDB9P	9	M	plastic	2.49	1.79
109217EA	MDB9S	9	F	metal	1.49	1.19
12520EA	CDB9S	9	F	plastic	2.59	2.35
115983EA	MDB25P	25	M	metal	1.85	1.69
12335EA	CDB25P	25	M	plastic	1.89	1.69
115975EA	MDB25S	25	F	metal	1.85	1.65
12431EA	CDB25S	25	F	plastic	1.95	1.79

†109225EA/109217EA: require flat cable with .0625" centers

D-Subminiature Connectors

Solder-Cup Connectors



15114EA Front



15114EA Back

- Compatible with 24 AWG communications and 22 AWG solid cable, pg 86

Part No.	Contacts	Gen.	Shell	1	10
15747EA	9	M	metal	\$.56	\$.44
15771EA	9	F	metal	\$.59	\$.49
15034EA	15	M	metal	\$.55	\$.49
15051EA	15	F	metal	\$.59	\$.49
15114EA	25	M	metal	\$.99	\$.89
15157EA	25	F	metal	\$.89	\$.80

Straight PC Mount Connectors

- Non-removable contacts
- 125 Vrms
- Current rating: 5 amps
- Operating temp.: -65°F to +250°F

15122EA



Part No.	Mfr. Cross Ref. No.	Cont.	Gen.	Shell	1	10
111691EA	DB9PPCB	9	M	metal	\$.55	\$.45
15780EA	DB9SPCB	9	F	metal	\$.55	\$.45
176760EA	DA15PPCB	15	M	metal	\$.49	\$.39
176751EA	DA15SPCB	15	F	metal	\$.49	\$.44
15122EA	DB25PPCB	25	M	metal	\$.65	\$.59
15165EA	DB25SPCB	25	F	metal	\$.74	\$.55

More @ www.jameco.com

DIN Female Sockets

Part No.	Mfr. Cross Ref. No.	# of pins	1	10
15843EA	DINJ5	5	\$1.29	\$1.15
15851EA	DINJ6	6	1.39	1.25
15860EA	DINJ8	8	1.49	1.35

15851EA



PCB Right Angle Centronics Connectors



72151EA



72080EA

- Solder-type contacts
- Space between rows: .164"
- Space between pins: 0.1"
- Metal body
- PC mount

Part No.	Description	1	10
72151EA	36-contact female	\$3.55	\$3.19
72080EA	50-contact female	4.95	4.21

PANAVISE IDC Bench Press and Cable Cutter

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.

27182EA



27174EA

Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
27174EA	M505	Bench press	7.0	\$179.95	\$159.95
M505 Accessories					
27182EA	M507	Cable cutter	0.9	\$66.95	\$61.95
27203EA	M510	Base plate	0.5	26.49	23.49

171-Pc. Solderless Terminal Kit

- Clear, hinged plastic box
- Use crimping tool P/N 72995EA, pg 60

170 Terminals and Connectors!



Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male spade	16-22	1/4"	10	Ring term.	14-16	#10
10	Male spade	14-16	1/4"	5	Ring term.	10-12	#10
10	Fem. spade	16-22	1/4"	5	Ring term.	10-12	#14
10	Fem. spade	14-16	1/4"	10	Spade term.	16-22	#6
10	Ring term.	16-22	#6	10	Spade term.	16-22	#8
10	Ring term.	16-22	#8	10	Spade term.	14-16	#10
10	Ring term.	16-14	#10	10	Butt connec.	16-22	-
15	Ring term.	14-16	#6	10	Butt connec.	14-16	-
10	Ring term.	14-16	#8	5	Butt connec.	10-12	-

Part No.	Description	1	10
10989EA	Terminal kit	\$8.95	\$7.95

Flash Writer/Programmer with USB Interface

- Programs 8-bit FLASH serial ICs via USB cable on Windows® 9x/2000/XP
- High speed: Only 22 seconds to blank check, program, and verify MXIC MX29F040
- File formats supported: binary and machine code, Intel HEX, Motorola HEX, Tektronix
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
- Supports Flash EPROM, EPROM and EEPROM



Includes: USB cable, 12V @ 500mA adapter, CD-ROM software and manual

Part No.	Description	1	10
225947EA	Leaper 3D	\$219.95	\$208.95

For XELTEK

Programmers see our website.

EPROM Erasers and Accessories

66042EA:

- Erases 1 chip in 7 minutes
- Conductive foam liner eliminates static build-up
- UV intensity: 6.5mW/cm²
- Size: 6.8"L x 1.5"W x 2.3"H
- Weight: 0.8 lbs.
- One-year warranty

UVP



66042EA

Requires: Four AA batteries (not included), recommend P/N 32627EA (below)

15712EA:

- Erases 1 chip in 15 minutes or 8 chips in 21 minutes
- UV intensity: 6.8mW/cm²
- Maintains constant exposure distance of 1"
- Conductive foam liner eliminates static build-up
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- Size: 9.0"L x 3.7"W x 2.6"H
- Weight: 2.3 lbs.



15712EA

Part No.	Description	1	10	25
66042EA	Portable eraser	\$64.95	\$58.95	\$52.95
15712EA	8-chip eraser	109.95	104.95	99.95
34382EA	Lamp for 15712	34.95	34.95	34.95
13864EA	Foam (12"x24"x0.25")	7.95	6.95	6.15
32627EA	"AA" Ni-Cad battery	1.95	1.75	1.49

512k E(E)PROM / Flash Programmer USB Interface

- Programs EPROMs 27C/LV (64 - 080); EEPROMs 28C(256-040); Flash EPROMs 29C(256-040) / 29EE/LE (512-020)/28F(256-020A)/ 29F(010-040) & more
- 2 sockets for master/slave operation
- Stand-alone mode uses two 9V batteries
- Adjustable IC parameters, such as programming algorithm, Vpp voltage, & pulse width
- Supports file formats binary & machine code, INTEL HEX, Motorola HEX
- Supports Windows® 95/98/NT/2000/ME/XP

Includes: USB cable, 12VDC @ 500mA power adapter; and CD-ROM

Part No.	Description	Size	1	5
220636EA	Leaper-3C	6.3"L x 4.3"W x 1.8"H	\$299.95	\$284.95



FUNCTIONS					
Stand Alone Mode:					
- Functions	- Verify	- Type	- Program	- Blank check	
PC-Based Mode:					
- Type	- Read	- Blank	- Check	- Program	- Verify
- Erase	- Disk	- Help	- Process	- Parameter	

Solderless Breadboards

20757EA



20773EA



20790EA



20811EA

These long-lasting solderless breadboards feature screen-printed color coordinates suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77681EA (right).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry • 0.1" hole spacing
- Pins are identified by numbered rows and columns • Ideal for high frequency and low noise circuits
- Low static, plastic body – CMOS safe • Use to breadboard and debug circuit designs
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas • One-year warranty
- Components are easily interconnected using 20-28 AWG wire (P/N 19289EA & 20079EA, right)
- Some models feature heavy-duty aluminum backings (JE24, JE27)



20600EA 20669EA 20722EA

Attention Educators! Buy jumper wire (right) in bulk and SAVE! (see Hook-up Wire on pg 86)

Part Number	Product Number	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L x W (In.)	Baseplate Size L x W (In.)	Weight (lbs.)	Pricing	
									1	10
20600EA	JE21	1	2	400	0	3.3 x 2.1	—	0.13	\$4.95	\$4.49
20669EA	JE22	1	0	630	0	6.5 x 1.4	—	0.20	5.49	4.95
20722EA	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	8.95	7.95
194271EA	JE34	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.78	15.95	14.39
20757EA	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	12.95	11.95
20773EA	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	18.95	16.95
20790EA	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	25.95	23.39
20811EA	JE27	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	31.95	29.95

Digital Design Lab

- Two 7-Segment Displays (digit height: 0.3") • One-year warranty
- Solderless Breadboard
- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads • 1580 tie points

DC Power Supplies

- DC supplies equipped with short circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A
- Fixed power supply: ±5VDC @ 1.0A

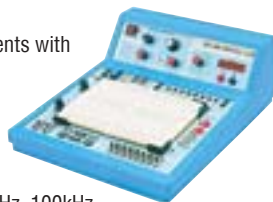
Function Generator (5 ranges)

- Frequency range: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vp-p variable • Triangle wave output: 6Vp-p fixed
- Square wave output: ±5V fixed • DCV digital multimeter

Includes: Power cord and manual

Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	1	10
75838EA	Digital lab	10.6 x 13.3 x 5.0	8.1	\$276.95	\$249.95

International
115/220VAC
Switchable



Our most popular digital lab!

Digital-Analog Design Lab**Solderless Breadboard**

- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies

- Variable DC output: 0 to +15V & 0 to -15V @ 500mA; Fixed DC output: +5VDC, 1A; -5VDC, 300mA • Input power: 120/220VAC @ 50-60Hz (switchable)

Function Generator

- Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vpp variable • Triangle wave output: 0–6 Vpp variable
- Square wave output: 0–8 Vpp variable

Other features:

- 2 variable resistors: VR1=1kΩ, VR2=100kΩ • 8 data switches • 2.5" dia. 8Ω, 25W speaker
- 2 pulse switches (2 sets of outputs: A, A, B, B) • 2 banana sockets, 2 BNC jacks • One-year warranty
- Two 7-segment LED displays (digit height: 0.3") • 8 red LEDs with separate input terminals

Includes: Power cord and manual

Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	1	10
136266EA	Digital-analog lab	12.8 x 9.8 x 3.7	8.5	\$379.95	\$341.99

International
120/220VAC
Switchable

**PLCC Prototype Adapters**

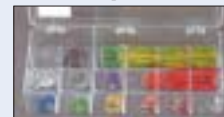
- PCB construction
- Silkscreen numbers identify pin numbers in groups of 5 and 10
- Gold-plated round pins
- Tin-plated PLCC connector
- PLCC socket identifies pin 1 and orientation key
- PLCC socket slotted for PLCC chip remover



Part No.	Pins	Size (L x W)	1	10
73550EA	68	3.4" x 1.6"	\$15.95	\$14.49

Wire Jumper Kit (350 pcs.)

- 25 each of lengths 0.1" through 5.0" (14 sizes)
- 350 assorted lengths in 13 colors
- Pre-stripped/preformed 22 AWG solid wire jumpers
- 19289EA: 350-piece wire jumper kit
- Handy, durable, clear plastic case
- 20079EA: 350-piece refill only for 19289EA



Part No.	Description	1	10
19289EA	Wire jumper kit	\$15.95	\$14.39
20079EA	Refill for 19289EA	9.99	8.99

Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



Part Number	Mfr. Ref. No.	Cross Length (mm / inch)	1	10
126359EA	JW50	50 / 1.97	\$3.95	\$3.49
126341EA	JW100	100 / 3.94	4.95	4.49
126324EA	JW200	200 / 7.87	5.19	4.69

AC/DC Power Supply

Output Specifications:

- +5VDC @ 1A; -5V @ 300mA fixed;
- 0 to +15VDC @ 500mA variable;
- 0 to -15VDC @ 300mA variable;
- 12-6-0-6-12 tapped VAC, 300mA fixed



International 120/220VAC Switchable

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Compact and lightweight • Plug and use
- For both digital and analog circuits • Color: beige
- Compatible with test leads P/N 77841EA, pg 70
- Size: 7.4"W x 5.5"D x 2.6"H • Weight: 5.5 lbs.

Part No.	Description	1	10
77681EA	Power supply	\$119.95	\$109.95

Powered Project Board

- Solderless breadboard with 2420 tie points
- DC power supplies: +5V @ 1A; variable power 0 to +15VDC and 0 to -15VDC @ 500mA
- Back panel has ground terminal
- Outputs are short-circuit protected
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103907EA, pg 26
- Breadboard size: 7.4"L x 6.8"W
- Enclosure size: 9.8"L x 8.0"W x 2.6"H • Wt.: 6.8 lbs.

CE

International
120/220VAC
Switchable



Includes: Power cord

Part No.	Description	1	10
136258EA	Powered breadboard	\$99.95	\$89.95

microEngineering Labs

"PICProto" Prototyping Boards

- High quality blank prototyping boards for PICmicro microcontrollers
- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes



Includes: Documentation sheet with schematic, suggested parts and placement

PICProto 18, 18L: For all 18-pin PICs including PIC16C52, 54, 56, 58, 55A, 55B, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84

Part No.	Description	Size (L" x W")	1	10
132644EA	PICProto 18	3.0 x 1.5	\$9.95	\$8.95
176891EA	PICProto 18L	3.6 x 4.1	19.95	17.95

PICProto 3: For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242, and 252

132636EA	PICProto 3	3.0 x 3.0	\$14.95	\$13.49
----------	------------	-----------	---------	---------

PICProto 64: For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422, and 452

132652EA	PICProto 64	4.0 x 3.0	\$16.95	\$14.95
----------	-------------	-----------	---------	---------

microEngineering Labs

EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62x, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs.

- Interactive software for Windows and DOS
- Command line operation for automated, non-interactive programming

Requires: Two 9V batteries or AC adapter (below) **Includes:** Assembler software

Part No.	Description	1	10
132679EA	EPIC Plus PICmicro programmer	\$59.95	\$53.95
136397EA	8/18/20-pin ZIF adapter	34.95	31.95
132610EA	40/28-pin ZIF adapter	34.95	31.95
162317EA	AC wall adapter (16VDC/500mA, details on pg 39)	7.95	6.95
67256EA	6" DB25 cable (details on pg 68)	6.45	5.79



microEngineering Labs

PICBasic and PICBasic Pro Compiler

Converts your BASIC programs into files that can be programmed directly into a PICmicro MCU.

- Compatible with most PICmicro MCU programmers including EPIC plus
- I2C instructions to access external serial EEPROMs
- Use in DOS or Windows (includes Windows editor/DE software)

132661EA: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- Supports PC12C67x, PIC14Cxxx, PIC16C55x, 66x, 7xx, 84, 92x, and PIC16CF8xx microcontrollers
- May use up to 2k of code space

150543EA: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k
- Bit, byte, word arrays
- Real If...Then...Else...Endif
- Hierarchical expression handling
- Built-in LCD support
- MPLAB/MPASM/ICE compatibility
- Supports 12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx, and 18Cxxx microcontrollers

Part No.	Description	1	10
132661EA	PICBasic compiler	\$99.95	\$89.95
150543EA	PICBasic Pro compiler	249.95	224.95



microEngineering Labs

LAB-X1 Experimenter's Module Board

A pre-assembled experimenter's platform, providing an assembled testbed containing the circuitry commonly used with PICmicro microcontrollers. Projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer, and RC servo controller.

- 40-pin ZIF socket for PICmicro MCU (not included, PIC16F877-20/P recommended)
- Jumper selectable oscillator from 4MHz to 20MHz
- Reset button
- 16 switch keypad
- 3 potentiometers
- LED bargraph
- 2 lines x 20 characters LCD module
- Speaker
- 2 RC servo connectors
- RS232 interface
- Socket for RS485 interface (device not included)
- Socket for real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector
- Prototyping area for additional circuit
- Wiring for microchip in-circuit debug connector

Requires: AC adapter (below)

Part No.	Description	1	10
169113EA	LAB-X1 Experimenter Board	\$199.95	\$189.95
176882EA	PIC16F877-20/P microcontroller	7.69	5.29
127976EA	AC adapter (details on web)	4.75	4.25



Circuit Boards and Accessories

DATAK Photo Etch™ Printed Circuit Kit

Generate your own 1:1 artwork. Then use the patented Fast Neg film process to make a photo negative and sensitize and expose a blank copper board. Finish by developing & etching. No camera or darkroom is required.

Part No.	Product No.	Wt. (lbs.)	1	10
16731EA	12-750*	4.6	\$39.95	\$36.95



DATAK Direct Etch PCB "Starter" Set

Includes: 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIP, patterns, lines and 1/32" & 1/16" etch resist tape.

Part No.	Prod. No.	Description	1	10
70412EA	ER1	PCB kit	0.7 ...	\$11.95 \$10.95



DATAK Dry Concentrated Etchant

- Makes one pint of etch solution

Part No.	Prod. No.	Description	1	10
70201EA	ER3	Dry etchant		\$3.95 \$3.49

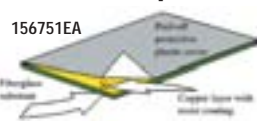


DATAK Pre-Sensitized Circuit Boards & Developer

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16" T

Includes: Instructions

Part No.	Description	1	10
156751EA	Single sided	\$4.95	\$4.49
156742EA	Double sided	6.49	5.85
156734EA	4 oz. Pos. developer*	6.95	5.95



*Shipped via UPS ground to continental U.S. only

Copper-Plated Blank Circuit Boards

Ideal for hobbyists and students doing prototypes of circuits. Copper plating on board for either single-sided or double-sided boards.

- 1.6mm thickness

Part No.	Mfr. Cross Ref. No.	Description	Size (L" x W")	Fig.	Wt. (lbs.)	1	10
169279EA	PCBS3X6	Single side	3.0 x 6.0	3	0.1	\$3.49	\$3.15
169287EA	PCBS6X6	Single side	6.0 x 6.0	2	0.2	4.95	4.49
169295EA	PCBS12X12	Single side	12.0 x 12.0	1	0.5	13.95	12.56
169308EA	PCBD3X6	Double side	3.0 x 6.0	3	0.1	4.95	4.45
169316EA	PCBD6X6	Double side	6.0 x 6.0	2	0.2	7.95	7.15
169324EA	PCBD12X12	Double side	12.0 x 12.0	1	0.7	17.95	15.95

Fig. 1

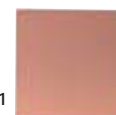


Fig. 2 Fig. 3



General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

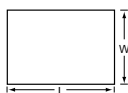
- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- Plated through pads are double-sided
- PCB material epoxy glass
- Connector I/O or edge: None

See pg 55 for PCB mounting enclosures and hardware (recommend P/N 106551EA)

SALE

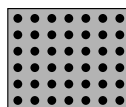
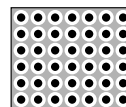
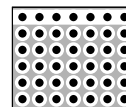
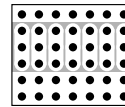
21434EA

Board Outline



21477EA

Circuit Patterns

A
Holes OnlyB
Pad Per HoleC
Power/Ground Perimeter
Bus with Pad Per HoleD
3 Hole Solder Pad
and Bus

Part Number	Product Number	Size (W" x L")	Fits Enclosure(s) (see page 41)	Circuit Pattern	Hole Pads	# Holes x Dia. †	Power/Ground Busses	# Mounting Holes x Dia.	Weight (lbs.)	Pricing	
										1	10
105099EA	2855PCB	1.60 x 2.70	18921	B	Single-sided	288 x .035"	None	2 x .115"	.02	\$4.95	\$4.49
105101EA	5002PCB	1.50 x 3.50	11957	C	Single-sided	365 x .038"	4	2 x .140"	.02	6.95	6.25
28177EA	PCB1	2.42 x 4.10	18913	C	Plated through	674 x .040"	None	4 x .120"	.04	5.95	5.35
105136EA	2320PCB	3.30 x 4.50	11885	C	Single-sided	1266 x .035"	4	4 x .140"	.06	9.95	8.95
105161EA	2852PCB	3.60 x 7.00	18905, 11973	B	Single-sided	2225 x .035"	4	4 x .140"	.10	14.95	13.45
21434EA	JE401(8001)	4.50 x 6.50	18868	B/D	Single-sided	2360 x .042"	2	None	.12	20.95	18.95
21451EA	JE405(8003)	4.50 x 6.50	18868	C	Single-sided	2360 x .042"	1	None	.12	19.95	17.95
21477EA	JE407(8006)	5.00 x 13.25	N/A	B	Plated through	6063 x .038"	None	8 x .120"	.28	39.95	35.29
105187EA	2507PCB	6.10 x 8.80	18876	C	Single-sided	4771 x .035"	7	8 x .140"	.21	29.95	26.95
37621EA	169P84WE	8.50 x 17.0	N/A	A	Drilled only	14448 x .042"	None	None	.53	22.85	21.19

† All 0.042" diameter hole boards use terminals T44, T49, and T421 (see website)

Hardware, Cabinet and Boxes

Hex. .1875" .250" Female

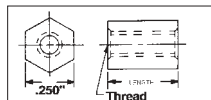
Aluminum & Brass Threaded Standoffs

† Finish: Iridite (clear) † per MIL-C-5541-D

* Prepackaged: order in increments of 10

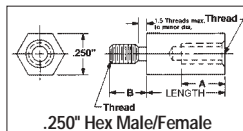


Hex. .250" Male/Female



.250" Hex Female 4-40 Thread .250" Hex

Part No.	Metal†	Hex Length	1	10
139192EA	Alum ¹	.250"	*	\$.16
77500EA	Alum ¹	.375"	*	.20
134762EA	Alum ¹	.437"	*	.21
108370EA	Alum ¹	.500"	*	.25
77518EA	Alum ¹	.625"	.42	.35
133604EA	Alum ¹	.750"	.39	.35



.250" Hex Male/Female

4-40 Thread (Thread A: .250"; B: .187")

Part No.	Metal†	Hex Length	1	10
111755EA	Alum ¹	.500"	*	\$.44
139221EA	Alum ¹	.750"	*	.39
128565EA	Alum ¹	1.25"	.59	.53

.187 Hex Male/Female

4-40 x .187" Jack Screws and Hex Nut



169931EA/172603EA/102816EA



108986EA

Part No.	Description (Brass)	1	10
169931EA	.275"L jack screws	*	\$.15
172603EA	.315"L jack screws	*	.14
102816EA	.435"L jack screws	.49	.46
108986EA	.515"L jack screws	.55	.50

SAE Hardware

- Zinc-plated steel



Prepackaged: order in increments of 100 or 1000

Slotted Pan Head Machine Screws					
Part Number	Screw Size	Thread	Length (in.)	100 piece minimum	
38172EA	2-56	Std	.250	\$.025	\$.022
40951EA	4-40	Std	.250	.019	.011

Hex Nuts					
Part No.	Screw Size	Thread	Length (in.)	1	10
38164EA	2-56	Std	.183	\$.022	\$.014
40942EA	4-40	Std	.243	.025	.013

Plastic Fliptop Case for SMDs

128 Compartments for Surface Mount Components

- 8 rows x 16 columns grid
- Padded cover locks bins closed
- Perfect match to store P/N 156881EA SMD resistor assortment, pg 23
- Fliplop openings on each bin

Part No.	Description	Size	1	10
164267EA	SMD fliplop case	11.0"L x 8.3"W x 1.7"T	\$49.95	\$44.99



Includes labels for each bin

Component Cabinet

81701EA



Drawer (85454EA) Divider (85446EA)

- Drawer can be divided into 4 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 15"W x 7.9"H
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Divider size: 2.4"L x 1.1"H • Weight: 4.7 lbs.

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

* Prepackaged: order in increments of 10

Part No.	Description	1	10
81701EA	Component cabinet	\$15.95	\$13.95
85454EA	Drawer for cabinet	.39	.35
85446EA	Divider for drawer	*	.19

Wall Transformer Enclosures

- Enclosures include 3-prong power plug & cable strain relief
- Material: noryl • Color: black
- Size: 3.4"H x 2.7"W x 2.3"D



115051EA

Part No.	Style	1	10
115051EA	Non-vented	\$2.25	\$1.95
115043EA	Vented	2.25	1.95

Bug Boxes

- Anti-static plastic
- Fits in bug cage (P/N 11332EA, see web)
- 11341EA: stores sixty 8-pin or thirty 16-pin DIPs
- 11375EA: Designed to store all types of components
- 6 ea. vertical & horizontal dividers



11375EA

11341EA

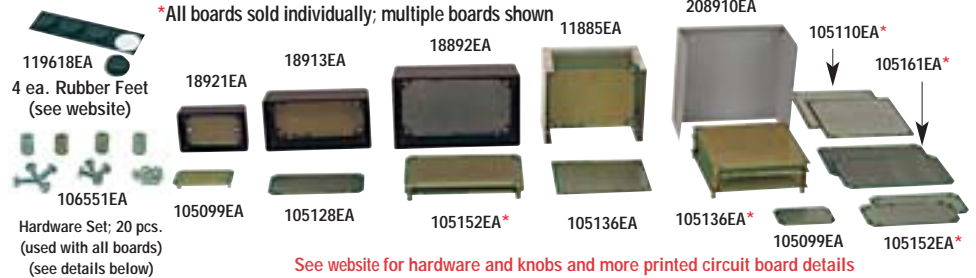
Part No.	Description	1	10
11341EA	30 compartments	\$3.95	\$3.49
11375EA	3 compartments	4.49	3.95

Prototype Builder Boards, Enclosures and Hardware

Call for additional OEM pricing.

The prototype builder boards on this page are specifically designed to fit into our ABS speedy boxes, die cast aluminum enclosures, aluminum boxes, metal cabinets and heavy-duty instrument cases shown in each grouping. These pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed at the bottom, right (P/N 106551EA).

Board description: laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.



ABS Speedy Enclosures

Will not crack or split when drilled or punched. PCB mounting slots on all four sides. Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are for interior dimensions. • Color: black • ABS plastic



Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
18921EA	H2855	3.1" x 2.0" x 0.9"	0.1	\$2.99	\$2.69
18913EA	H2853	4.9" x 2.5" x 1.5"	0.2	3.49	3.15
18892EA	H2851	6.0" x 3.5" x 1.9"	0.4	4.49	4.05
18905EA	H2852	7.5" x 4.3" x 2.3"	0.5	6.49	5.85

Printed Circuit Boards for Above Enclosures

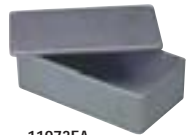
- Power/ground, perimeter bus with pad per hole (*except P/N 105099EA) • Plated one side holes



Part No.	Product No.	Size (L x W)	No. of Holes	1	10
105099EA*	2855PCB	2.7" x 1.6"	288	\$4.95	\$4.49
105128EA	2853PCB	4.4" x 2.0"	669	7.95	6.95
105152EA	2851PCB	5.5" x 3.1"	1450	9.95	8.95
105161EA	2852PCB	7.0" x 3.6"	2225	14.95	13.45

Die-Cast Aluminum Enclosures

High-quality die-cast aluminum cases come with channeled walls for easy PCB mounting. Ideal for RF circuits because the lid forms an effective screen against RFI interference. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.



Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
11957EA	B5002	3.9" x 2.0" x 1.0"	0.2	\$5.95	\$5.39
11965EA	B5004	4.7" x 2.4" x 1.6"	0.4	7.95	7.15
11973EA	B5006	7.5" x 4.3" x 2.4"	1.2	13.49	12.15

Printed Circuit Boards for Above Enclosures

- Power/ground, perimeter bus with pad per hole
- Plated one side holes



Part No.	Product No.	Size (L x W)	No. of Holes	1	10
105101EA	5002PCB	3.5" x 1.5"	365	\$6.95	\$6.25
105128EA	5004PCB	4.4" x 2.0"	669	7.95	6.95
105161EA	5006PCB	7.0" x 3.6"	2225	14.95	13.45

Aluminum Enclosures

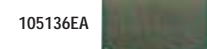
Ideal boxes for those projects that get left lying around! Put them in an economical aluminum enclosure. The enclosure comes in two pieces which slide together.



Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
11869EA	B2300	4.0" x 2.0" x 2.8"	0.2	\$5.45	\$4.69
11885EA	B2320	5.0" x 4.0" x 3.0"	0.4	7.89	6.15
11893EA	B2335	7.0" x 6.2" x 4.6"	0.8	10.95	9.25

Printed Circuit Boards for Above Enclosures

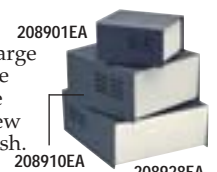
- Power/ground, perimeter bus w/ pad per hole
- Ground Bus • Plated one side holes



Part No.	Product No.	Size (L x W)	No. of Holes	1	10
105110EA	2300PCB	3.4" x 2.4"	637	\$7.95	\$6.95
105136EA	2320PCB	4.5" x 3.3"	1266	9.95	8.95
105179EA	2335PCB	6.5" x 5.0"	2829	14.95	13.49

Metal Enclosures

High-quality metal enclosures are made to suit a large variety of electronics projects and applications. The base is made of aluminum. Slots are located on the sides of the cases for maximum cooling. Cases screw together and come with an attractive two-tone finish.



- Mounting screws and rubber feet included

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
208901EA	B2741A	4.0" x 3.3" x 2.2"	0.4	\$6.49	\$5.89
208910EA	B2743A	5.9" x 5.3" x 3.0"	0.8	7.99	7.19
208928EA	B2744A	7.3" x 6.3" x 2.8"	1.1	8.99	7.99
209357EA	B2747A	7.5" x 9.8" x 3.2"	1.4	14.99	13.49

Printed Circuit Boards for Above Enclosures

- Power/ground, perimeter bus with pad per hole • Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10
105110EA	2741PCB	3.4" x 2.4"	637	\$7.95	\$6.95
206578EA	2743PCB	4.7" x 4.5"	1869	7.49	6.74
105179EA	2744PCB	6.5" x 5.0"	2829	14.95	13.49

Heavy-Duty Instrument Cases

Both cases split apart for ease of working. Four plastic feet molded on unit. P/N 18876EA includes ventilation and speaker sound slots. • Color: gray



Part No.	Mfr. Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10
18868EA	H2505	7.9" x 6.3" x 2.5"	0.8	\$7.39	\$6.69
18876EA	H2507	10.0" x 7.5" x 3.1"	1.4	8.99	7.99

Printed Circuit Boards for Above Instrument Cases

- Power/ground, perimeter bus with pad per hole • Plated one side holes

Part No.	Product No.	Size (L x W)	Holes	1	10
105179EA	2505PCB	6.5" x 5.0"	2829	\$14.95	\$13.49
105187EA	2507PCB	8.8" x 6.1"	4771	29.95	26.95

ABS Enclosures w/ Clear Tops

Made of gray ABS plastic w/ clear polycarbonate top cover. Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment & drilled holes for mounting.



Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
141831EA	203C1	4.6" x 3.2" x 1.8"	0.3	\$8.95	\$8.09
141840EA	203D1	6.3" x 3.2" x 1.8"	0.4	9.95	8.99
141858EA	203F1	7.0" x 5.5" x 2.5"	0.8	11.95	10.79

Mounting Hardware for PC Boards

- 4 spacers, 8 screws and 8 washers



Part No.	Description	1	10
106551EA	PC board mounting hardware	\$1.79	\$1.65



Fig. 1

3M Adhesive Rubber Feet



Fig. 2

Part No.	Product No.	Type	Fig.	Pack	Size (W" x H")	1	10
142658EA	SJ5012BLKC	Black cylindrical	1	100	.50 x .14	\$5.95	\$5.35
142682EA	SJ5018BLKC	Black tapered square	2	100	.50 x .23	9.95	8.25

Fume Extractor and Filters**Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan**

- Air flow: 115 CFM
- Operate continuously providing filtered air
- Compact size allows use on work bench with minimum space
- 120VAC, 60Hz, 22 watt
- Noise: 49dB fan
- Fuse protected
- Static ground jack
- On/off power switch
- Aerodynamic hood design for effective removal of solder fumes
- Removable carbon impregnated filter
- One-year warranty
- Black anodized aluminum case
- Size: 6.4"W x 4.6"D x 7.9"H • Weight: 4.6 lbs.

Includes: Detachable power cord

Part No.	Description	1	10
120150EA	Fume extractor	\$79.95 \$58.95	\$52.95
127183EA	Replace. filters (2/pk)	10.95	9.95



120150EA

Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 40 watt, 120V @ 60Hz
- Temperature is electronically controlled from 350° to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

Includes: ST3 1/8" screwdriver tip, soldering station and manual

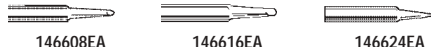
Part No.	Prod. No.	Description	1	10
146595EA	WLC100	Soldering station	\$48.95 \$44.09	



146595EA

Weller® Soldering Tips**Replacement Tips for WLC100, WP25 & WP23**

Part No.	Prod. No.	Description	1	10
146608EA	ST1	Screwdriver tip 1/16" ...	\$5.95	\$5.35
146616EA	ST3	Screwdriver tip 1/8" ...	5.95	5.35
192145EA	ST6	Screwdriver tip .031" ...	5.25	4.75
146624EA	ST7	Conical tip 1/32" ...	5.95	4.95



146608EA 146616EA 146624EA

Weller® Analog Soldering Station

- Innovative heater and sensor combination for quick heat-up and rapid temperature recovery
- Tip temperature offset capability which allows user to reset temperature readings to match tip size and style
- Wireless temperature lockout
- Auto power down after 90 minutes of inactivity
- Temperature range: 350°F to 850°F (177°C – 454°C)
- Temp. accuracy: ±90°F (±5°C) • ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

Part No.	Product No.	1	10
217461EA	WES51	\$115.95	\$105.95

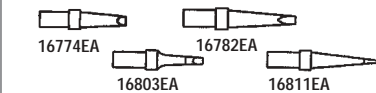


Discover what you are looking for
@ www.Jameco.com

More Soldering Equipment on our website.

Weller® Soldering Tips**Replacement Tips for WES50**

- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Tips also used with WCC100 station
- Additional tips can be special ordered



Part No.	Prod. No.	Description	1	10
16774EA	ETA	Screwdriver 1/16" ...	\$6.95	\$6.25
16782EA	ETJ	Long screwdriver 1/32" ...	6.95	6.25
16803EA	ETR	Narrow screwdriver 1/16" ...	6.95	6.25
16811EA	ETS	Long conical 1/64" ...	6.95	6.25

16 to 30-Watt Variable Soldering Iron, Stand & Sponge

116572EA:

- Length: 7.5"

36329EA:

- Black anodized steel base – 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631EA)
- Fits most soldering irons .85" diameter

Includes: Sponge

Part No.	Description	1	10
116572EA	Soldering iron	\$18.95 \$16.95	\$15.29
36329EA	Soldering stand	4.25	3.85
134631EA	Sponge (for 36329EA)	2.99	2.69



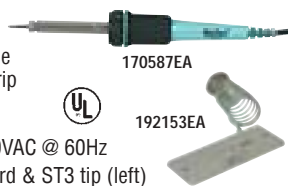
116572EA 134631EA 36329EA

Weller® Professional 25-Watt & 35-Watt Soldering Irons

- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar
- Length: 9" • 120VAC @ 60Hz

Includes: Power cord & ST3 tip (left)

Part No.	Prod. No.	Description	1	10
170587EA	WP25	25W solder iron ..	\$32.95	\$31.35
192102EA	WP35	35W solder iron	39.95	35.95
192153EA	PH25	Solder iron stand ...	16.19	15.35



170587EA 192153EA

Economical, High-Performance Soldering Irons

High-quality soldering irons that are suitable for both professional and do-it-yourself applications.

- 25W, 40W, & 60W • Length: 9"
- 120VAC; 6' cord with 3-prong plug
- 226000EA (chisel, std.); 226018EA (conical, opt.) – tips for 224611EA/224602EA
- 226026EA (chisel, std.); 226034EA (conical opt.) – tips for 195223EA

Part No.	Product No.	1	10
224611EA	200PHG-25W	\$7.95	\$7.15
224602EA	200PHG-40W	9.95	8.95
195223EA	200PHG-60W	13.95	12.49
226000EA	44-240517	.95	.85
226018EA	44-240513	.95	.85
226026EA	44-240617	1.95	1.79
226034EA	44-240603	1.95	1.79

**SMD Tweezer Iron**

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Max. temp.: 760°F
- 120VAC
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W x 2

Includes: 0.095" tip

Part No.	Description	1	10
168410EA	Tweezer iron	\$59.95	\$53.95
168583EA	Tip .078"	11.95	10.79
168591EA	Tip .590"	12.95	11.69



168410EA 168583EA

Electric Desolder Pump

- Easily disassembled for cleaning
- One-hand operation
- Replacement tips available
- UL listed

• Size: 10.5"L x 1.0"Dia.

Part No.	Description	1	10
19254EA	Electric desolder pump	\$26.95	\$23.95
19262EA	1 tip for 19254	4.95	4.49



19254EA

**One-Shot Desoldering Gun**

This low maintenance desoldering gun with self-contained vacuum pump is perfect for desoldering through-hole components.

- Power consumption: 60W
- Interchangeable standard tips
- Zero static tip, 3 wire grounded
- Sensitive where CMOS protection is needed
- Quick release stainless solder collector
- Electronic temperature control • 120VAC
- Ergonomic, lightweight design • One-year warranty
- Gun casing size: 7.0"L x 4.0"W • Weight: 2.2 lbs.

Includes: 1.0mm tip

Part No.	Description	1	10
129066EA	Desolder gun	\$99.95	\$89.95
140214EA	"Y" replacement tip	10.95	9.95
134594EA	1.0mm replace. tip	8.95	7.95
134607EA	1.2mm replace. tip	8.95	7.95

**PANAMSE Electronic Work Center**

- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty

Part No.	Description	1	5
27060EA	Electronic center	\$74.95	\$71.25

**Third Hand**

- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: P/N 26690EA: 0.7 lbs.; P/N 72864EA: 1.4 lbs.

Part No.	Description	1	10
26690EA	Third hand	\$5.95	\$5.35
72864EA	W/ soldering holder	7.95	7.19



72864EA

60-Watt Analog Display Soldering Station

Maintains a steady temperature using a cartridge heating element, providing a longer life for the solid soldering tip.

- Electronic temperature control: 300° - 850°F
- Isolated power supply: powered by a high-quality 24VAC transformer
- Lockout and calibration ports: set and lock the station at a specific temperature as well as an easy access point to calibrate temperatures
- Power: 60 watts
- Weight: 5.3 lbs.
- CMOS devices protected against voltage spikes
- Size: Base unit is 5.2"W x 8.0"D x 3.6"H



Includes: XY404 Soldering Tip

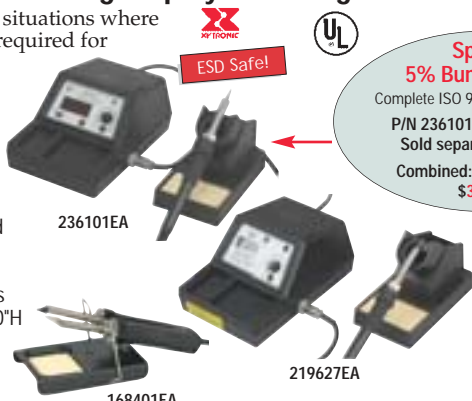
Part No.	Description	1	10
219627EA	60-Watt analog soldering station	\$99.95	\$89.95

60-Watt Digital & Analog Display Soldering Stations

Designed for soldering situations where precise temperature is required for sensitive components.

- Temperature is maintained at $\pm 6^\circ\text{F}$
- Electronic temperature control from 392° to 878°F
- External calibration port
- CMOS devices protected against voltage spikes
- Power-on and heater-on LED indicators
- Size: 5.1"W x 8.0"D x 4.0"H
- Weight: 4.8 lbs.

Includes: One 1/16" tip (P/N 35115EA - below)



Part No.	Product No.	Description	1	10
236101EA	XY9-60D/ESD	Digital soldering station - ESD safe	\$109.95	\$99.95
219627EA	XY9-60A	Analog soldering station	99.95	89.95
168401EA	TWZ50ESD	SMD tweezer iron w/ 0.078" tip	79.95	71.95
168583EA	46-060102	Tip .078" for P/N 168401EA	11.95	10.79
168591EA	46-060115	Tip .590" for P/N 168401EA	12.95	11.69
236460EA	78-744615	Replacement sponge for both stations	2.99	2.69

Special 5% Bundle Bonus
Complete ISO 9000 digital station -
P/N 236101EA & 125508EA
Sold separately \$409.90
Combined: P/N 207263EA
\$388.95

60-Watt Desoldering & Solder/Desoldering Stations



125508EA



125516EA

- Simple fine tune feature to select within 300-850°F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- CMOS devices protected against voltage spikes

125508EA:

- Size: 9.2"L x 7.2"W x 3.6"H
- Weight: 13.1 lbs.

Includes: 3/64" conical tip and solder holder

125516EA/223853EA:

- Size: 11"L x 10"W x 4.0"H
- Weight: 18.1 lbs.

Includes: 1/32" conical tip, solder holder, tip cleaner and tweezers

223853EA: Dual display of tip temperature with selector switch for °C or °F and read/set temperature



SALE

Part No.	Product No.	Description	1	10
125508EA	968	Desoldering station	Was \$309.95 \$299.95	\$269.99
125516EA	988	Solder/desoldering station	Was \$409.95 399.95	359.99
223853EA	988D	Solder/desoldering (dual display)	459.95	413.95
207271EA	TWZ60ESD	SMD tweezer iron with .078" tip	69.95	62.95
207221EA	D1A60A	Replacement desoldering iron	74.95	67.49
168583EA	46-060102	Tip .078" for P/N 207271EA	11.95	10.79
168591EA	46-060115	Tip .590" for P/N 207271EA	12.95	11.69
236460EA	78-744615	Replacement sponge for all stations	2.99	2.69

Replacement Sponges for Legacy Models

Part No.	Product No.	For XYTRONIC Station	1	10
134640EA	SP815	P/N 168-3C)	\$2.99	\$2.55
134631EA	SP715	P/N (XY-60D)	2.99	2.69

Soldering Tip Cleaner with Stand and Rosin Paste Flux

156777EA:

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability

73584EA:

Highly active non-corrosive and non-conductive flux with excellent wetting action



Part No.	Description	1	10
156777EA	Tip cleaner & stand	\$4.95	\$4.49
160004EA	Metal wool replacement	2.79	2.49
73584EA	Rosin paste flux (2 oz.)	1.79	1.65

600-Watt Solder Pot

Temperature Adjustable

- Tin boiler temp.: 0°C to 500°C
- Input voltage: 110VAC @ 5.5A
- Holds up to three 1.8 lbs. solder bars
- Size: (unit): 3.9"L x 1.6"D; (tub): 6.8"L x 5.5"W x 2.8"H

Includes: Skimmer and removable dross tray



Part No.	Description	1	10
172275EA	600W solder pot	\$189.95	\$159.95

More @ www.Jameco.com

See our website for additional Soldering,



Desoldering Tools & Accessories.

300-Watt Solder Pot

Temperature Regulated between 420 - 450°C

- HI/LO switch selectable for temperature
- 2 conductor power cord; 5' 9" long
- Holds up to one 1.1 lbs. solder bar
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base)
- Size: (tub) 2.4"Dia. x 1.6"D



Part No.	Description	1	10
160303EA	300W solder pot	\$64.95	\$58.49

Rosin Core Solder Rolls and Pocket Packs



* Organic core

Part No.	Mfr.	% Composition			Dia. (In.)	Wt. (lbs.)	Pricing	
		Tin	Lead	Silver			1	10
73576EA	Kester (pak)	60	40	0	.031	0.04	\$2.59	\$2.35
32117EA	Kester	60	40	0	.031	1.00	13.19	11.89
73605EA	Kester (pak)	62	36	2	.020	0.10	1.75	1.49
112344EA	Kester	63	37	0	.020	1.10	17.95	16.19
151474EA	Kester*	63	37	0	.031	1.00	14.95	13.49
170456EA	Golden	60	40	0	.031	0.06	1.39	1.25
141794EA	Super	60	40	0	.031	0.55	5.95	5.39
141786EA	Super	60	40	0	.031	1.10	7.95	6.95
141778EA	Super	60	40	0	.031	2.20	13.95	12.95



Cordless, portable power tools for your weekend projects!

Take your shop with you wherever you work! This tough and economical set of cordless rechargeable tools puts home-improvement power in your hands in a hurry. The kit comes with two interchangeable 14.4V batteries and a quick charger so you never run out of power. Everything is contained in one convenient case so you won't forget one of your essential tools.

Specifications:

- **Drill/driver**—Variable speed reversing with a

3/8" keyless chuck, a 16 position clutch, metal gears, and bronze bushings.

- **Detail sander**—Triangle shaped for sanding in small and difficult-to-reach places. Counter-balanced drive shaft with ball-bearing support.
- **Jigsaw**—Adjustable base plate, 0.5" stroke, and 1750 SPM operation
- **Flashlight**—Has adjustable head so you can direct the beam where you really need it.

Part No.	Description	Price
235504EA	14.4 volt tool kit	\$79.95

55-Piece Tech Tool Kit



Perfect for
general and
precision work!

SALE

Kit includes:

- Screwdriver handle, 6-pc. mini-hammer set, 5-pc. of double edge blade, 3-pc. soldering aid kit, 3-prong holder, 7-way crimping tool, 6 precision screwdrivers, 7-pc. hex key wrench, 30W soldering iron, adjustable wrench, anti-static strap, 8" linemans pliers, bent needle nose pliers, brush, desoldering pump, diagonal cutting pliers, flat nose pliers, utility knife, IC extractor, mini flashlight, 5 needle files, needle nose pliers, rosin core solder, 2-pc. screwdriver set and 2 tweezers
- Carrying case has outer velcro pockets to store paperwork, etc.
- Size: 17.6"L x 12.8"W x 4.0"H • Weight: 9.2 lbs.

Part No.	Description	1	5
136311EA	55-piece tool kit	\$124.95	\$112.46

Magnetic Tip Measuring Tape

Measuring with a regular tape measure is not easy, especially if you are working single-handed with metal materials. With this measuring tape, you can easily clamp on to metal surfaces with its magnetic hook and make precise measurements.



- Magnetic end hook for convenient measuring and TRU ZERO function
- Blade with nylon coating for easy scale reading
- Anti slip and shockproof rubber case
- Heavy duty spring & blade system • Extends 25'

Part No.	Description	1	10
215415EA	Magnetic tip tape measure	\$9.95	\$12.59

Xcelite® Heavy-Duty Nut Driver Kit



This set of heavy-duty nut drivers are ideal for service/repair or manufacturing environments or anywhere you encounter small metric components.

- Metric • Molded plastic case
- 31.35mm shaft hole depth

Includes: 4 thru 8, 10, 11 & 13mm

Part No.	Description	1	5
218042EA	Nut driver kit	\$52.95	\$49.99

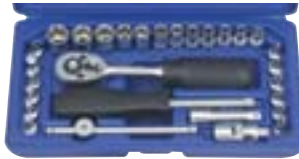
11-Piece Precision Screwdriver Set



- Magnetic pick-up
- 0.9, 1.2, 1.4, 1.8, 2.4 and 3mm slotted screwdrivers • Awl
- Phillips #00, #0 and #1 screwdriver

Part No.	Description	1	5
226093EA	Precision screwdriver set	\$4.49	\$4.29

29-Piece 1/4" Driver Socket Wrench Set



- Flank driver socket (6 pt): 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12 and 13mm
- Slotted bit: 4, 5.5 and 7mm
- Hex bit: 3, 4, 5, 6 and 8mm • Universal joint
- Phillips bits: #1 and #2 • Pozi bits: #1 and #2
- 2" extension bar • Sliding T bar
- Extension bar with spinner handle
- Pear-type ratchet handle with quick release
- Size: 8.7"L x 4.3"W x 1.6"H • Weight: 1.8 lbs.

Part No.	Description	1	5
226229EA	1/4" driver socket	\$29.95	\$28.49

Flexible Ratchet Driver Set



With the mini-ratcheting handle and 7.5" flexible shaft, you can loosen or tighten those hard-to-reach screws.

Includes: Flexible shaft (190mm), mini ratchet handle that has forward, reverse and conventional settings, slotted bits (4mm, 5mm & 6mm), Phillips (#1 & #2 bits), Pozi (#1 & #2 bits), and Torx (10, 15 & 20mm bits)

Part No.	Description	1	5
223802EA	Ratchet driver set	\$7.95	\$7.39

33-Piece Ratchet Driver Set

High torque reversible ratchet handle with forward, reverse, and conventional settings. Magnetic shaft holds steel screws to bit for easy positioning. Bits can easily be stored in handle for easy transport.



- Torx bits: T6, T7, T8, T9, T10, T15 and T20
- Nut bits: 3/16", 1/4", 9/32", 5/16", 11/32" and 7/16"
- Hex bits: 1.5, 2.0, 2.5, 3, 4, 5, 6 and 8mm
- Pozi bits: #0, #1, #2 • Phillips bits: #0, #1, #2
- Slotted bits: 3, 4.7 and 6.3mm • 50mm adapter
- Size: 9.1"W x 2.0"D x 7.6"H • Weight: 1.7 lbs.

Part No.	Description	1	5
226051EA	33-piece ratchet driver set ...	\$19.95	\$18.95

17-Piece Offset Ratchet and Socket Driver Set

This offset ratchet and socket driver set includes 6 hexagon sockets made from quality hardened carbon steel. The handle features a 1/4" male head drive to accommodate the accompanying bits and sockets.



- Slotted bits: 4, 5 and 6mm
- Torx bits: T10, T15 and T20
- Phillips bits: #1 and #2 • Pozi bits: #1 and #2
- Hex sockets: 3/16", 7/32", 1/4", 5/16", 11/32" & 3/8"
- Reversible driver handle with 1/4" male head

Part No.	Description	1	5
226069EA	Offset ratchet & socket	\$7.49	\$7.19

Twin Wrench Driver Set

The handle of this twin wrench driver set has two tips, horizontal and vertical for those hard-to-reach areas.



- Non-slip double ended driver
- Three slotted bits: 4mm, 5mm, and 6mm
- Phillips bits: #1 and #2 • Pozi bits: #1 and #2
- Torx bits: 10mm, 15mm, and 20mm

Part No.	Description	1	10
223811EA	Twin wrench driver set	\$3.95	\$3.59

More tools located on our website. www.Jameco.com Log on today!

Aerospace-designed wrench works in half the space of others!

These wrenches, developed for the aerospace industry, ratchet in just 30° of space – *half* the space of other open-end wrenches. They are made of solid 17-4 stainless tool steel, so they can't flake or chip like chrome-plated tools. The SAE set fits 3/8"-7/8", 1/2"-9/16", 5/8"-11/16". The metric set fits 10-12, 13-14, 15-17. They're so indestructible, the AldenWrench guarantees them for life!



With a ratcheting angle of just 30°, these wrenches work where others don't. Why didn't someone think of it sooner?

Part No.	Description	Price
223896EA	3-Piece wrench set (SAE)	\$34.95
223909EA	3-Piece wrench set (metric)	34.95

Finally, security bits needed to bypass those bizarre screwheads.

This security bit set contains most of the bits commonly used in today's electronic products to make them tamper resistant. Now you can open the cases of these products to repair them without damaging the case or screw.

- Torx bits: 4, 6, 8 & 10mm
- Tri-wing bits: #1, #2, #3 and #4
- Security hex bits: 2, 2.5, 3, 4, 5 and 6mm; 5/32", 9/64", 1/8", 7/64", 3/32" and 5/64"
- Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40 • 60mm magnetic bit extension

Part No.	Description	1	10
223829EA	32-piece tool kit	\$11.95	\$10.75

Well-organized & identified bits.

A 30-piece bit set organized in a neat, compact storage drum. All bits are compatible with power tools, rechargeable drills, and multi-bit screwdriver handles.

Set includes:

- Nut bits: 7/16", 3/8", 11/32", 5/16", 9/32", 3/16"
- Hex bits: 3/16", 1/8", 7/64", 5/64"
- Torx bits: T10, T15, T20, T25, T30
- Slotted bits: #3, #4, #5, #6, #7
- Pozzi bits: #1, #2, #3 • Bit holder
- 2 screw aligners • Phillips bits: #0, #1, #2, #3

Part No.	Description	1	5
227230EA	30-piece bit w/drum organizer	\$9.95	\$8.95

More @ www.jameco.com

12-Piece Deluxe Hole Saw Kit

Cut smooth, accurate holes from 3/4" to 5" diameter in drywall, wood, plaster, aluminum, laminates, and plastic. With the 1/4" and 3/8" mandrels you can use it with any battery or electric drill.

- Hole saw diameters: 3/4", 7/8", 1 1/8", 1 1/4", 1 1/2", 1 3/4", 2", 2 1/2", 3", 3 1/2", 4", 5"
- 1/4" & 3/8" drive mandrels • Allen wrench

Part No.	Description	Size	Weight	1	10
211262EA	Hole saw kit	8.0"L x 6.0"W x 1.9"H	2.8 lbs.	\$18.95	\$17.45

Spring-hook set makes the job faster and easier.



Each end has a unique point to fit the right situation and position.

Grab or place in position springs and wires in those hard-to-reach areas with these 8" long spring-hook tools.

Part No.	Description	1	5
226042EA	Spring-hook set	\$5.95	\$5.69

Strip-Wrap-Unwrap Tool



- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 86 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • Modified tool • 4.5" long

Part No.	Mfr. Cross Ref. No.	1	10
34585EA	WSU30M	\$49.99	\$44.99
236785EA	HSR30	29.95	26.95

25-Piece Assorted Screwdriver Grab Bag



25 assorted sizes and types of screwdrivers in a box. Types may include slotted, Phillips, Torx or star.

Part No.	Description	1	10
235070EA	Assorted screwdrivers	\$15.99	\$14.99

Save time and your wrist with this cordless screwdriver set!



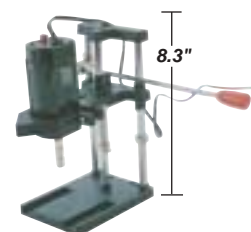
Get 40 inch/lbs. of torque for starting and finishing screws. Our 4.8 volt rechargeable cordless screwdriver with a 180 RPM motor has a spindle lock for greater control. Includes 2 magnetic bit holders, 11-piece bit set (5 slotted, 3 phillips, 3 torque), and power supply at no extra cost.

- Narrow nose for extended reach in tight places
- Construction grade quality
- Recharges in 7 – 9 hours
- Size: 10.5" long • Weight: 1.4 lbs.

Part No.	Description	Price
211254EA	Cordless screwdriver set	\$18.95

Mini-Drill and Stand

This Mini Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



Shown w/ drill (26702EA) & stand (26711EA)

Part No.	Description	Wt. (lbs.)	1	10
26702EA	MS398 drill	0.8	\$29.95	\$26.95
26711EA	MS399 stand	1.8	19.95	17.95

9-Piece Assorted Drill Bit Kit

- Variety of sizes: .014" to .126"
- Each kit will vary in contents of bit sizes
- Shank diameter: .125"

Includes: Plastic case

Part No.	Description	1	10
131676EA	9-piece drill bit kit	\$9.95	\$8.95

PC Board Drill Bits



SALE

- Reconditioned carbon steel bits
- High quality long lasting cutting edge
- Shank diameter: .125"
- Use for drilling holes in glass PC boards

Part No.	Drill Dia.	No.	Application	1	10
16619EA	.021"	75	Miscellaneous	\$1.49	\$1.34
16580EA	.040"	59	Plated thru holes	1.59	1.43

**Non-Insulated Terminal D-Sub Crimping Tool****14-26 AWG**

- Metal crimping tool with cutter and insulated handles
- For computer pins, sockets and D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- Coiled spring return
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire



Part No.	Product No.	1	10
99442EA	HT202A	\$9.49	\$8.55

**D-Sub Crimping Tool****20-28 AWG**

- Crimps D-sub pins and sockets
- Size: 7.0"L x 4.0"W



Part No.	Product No.	1	10
159265EA	HT213	\$10.95	\$9.89

**Ratcheted BNC Crimping Tool**

- Crimps RG58, RG59, RG62, RG174 and fiber optic
- All steel construction



Part No.	Product No.	1	10
114534EA	HT-3019	\$23.95	\$21.59

Terminal Wire Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W



Part No.	Mfr. Cross Ref. No.	1	10
72995EA	HT303	\$18.95	\$17.06

**IDC Connector Crimping Tool**

- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Crimp insulation displacement connectors
- Use for IDC socket connectors, pg 48



Part No.	Product No.	Size	1	10
73251EA	HT214	9.2"L x 3.0"W	\$15.95	\$14.39

5" Wire Cutter/Stripper

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Adjustment for wire gauges
- For 10-30 AWG wire



Part No.	Mfr. Cross Ref. No.	Size	1	10
78991EA	HT108	5.0"L x 3.0"W	\$3.95	\$3.49

Automatic Wire Strippers

- Strips 8-22 AWG wires
- Spring load grip
- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.

**Includes:** Wire stopper for desired strip length

Part No.	Description	1	10
175097EA	Auto wire stripper	\$16.95	\$15.26

**6" Premium T6 Wire Stripper**

- Contoured cushion-grip handles
- Wire size markings, in AWG and mm
- 16-26 AWG stranded
- Size: 6.0"L x 2.0"W



Part No.	Product No.	Description	1	10
161234EA	ID45-216	T-6 16-26 AWG	\$16.95	\$15.26

Data SureStrip™ Universal Cable Cutter/Stripper

- Cuts and strips multiple cable types: 4/6/8-conductor flat satin cables; 4/6/8-conductor UTP/STP data cables, 25-pair UTP/STP data and telephone cables; multi-conductor round bundled cables of up to 0.5" diameter; 14-8 AWG wire
- Small and compact
- Works left or right handed
- Self-regulating to prevent nicking
- Contoured finger grips for power cutting



Part No.	Product No.	Length	1	10
230447EA	1116	4.5"	\$19.89	\$17.89

6-Step Drill Tool**3/16" to 1/2"**

Drill multiple holes in thin material with the same bit, faster and easier. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick. No center punching on most sizes. Made of high-speed steel.

Part No.	Description	Size	1	10
172401EA	Step drill	3/16" to 1/2"	\$9.95	\$8.95

**Nibbling Tool**

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required
- Size: 7.8"L



Part No.	Prod. No.	Description	1	10
18809EA	HT204	Nibbling tool	\$7.95	\$7.16
29330EA	HT204B	Replacement bit	4.49	4.04

Impact Punch-Down Tool

Conforms to AT&T performance specification. Reversible clip-in blade, adjustable spring-loaded impact mechanism and spare storage blade in the handle.



- For 66-type bifurcated terminals
- Size: 7.0"L x 1.4"W x 1.1"H

Part No.	Description	1	10
124142EA	Tool with blade	\$54.95	\$49.46
124151EA	#110 blade	19.95	17.95

Paladin Tools®**www.Jameco.com**

See our website for Jameco's complete selection of tools.

"GripP-STRIPPER" Wire Cutter/Stripper

The newest wire stripper and cutter from Paladin Tools.

Combines ergonomic design and versatility. Strips and cuts stranded and solid wire and cable using only two tools for the most common types: electrical wire, hook-up wire, multi-conductor cable, and flat cables.

- The tool head and handles are designed at optimum 22° angle to prevent awkward wrist bends
- Spring loaded closure
- Contoured wire stripping areas precision ground for accuracy
- Non-scoring strip and smooth wire cutting
- Features screw cutter and wire loops embedded in frames
- Gripping jaws on front of tool
- Size: 7.1"L x 2.3"W x .65"D
- One-year warranty



Part No.	Product No.	Description	1	10
230463EA	1117	For 10-22 AWG	\$14.69	\$13.25
230471EA	1118	For 20-30 AWG	14.69	13.25

Xcelite**Wire Cutter**

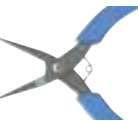
- Spring return
- Micro series wire cutter – flush; 6"

SALE

Part No.	Product No.	1	10
146712EA	170M	\$5.75	\$5.19

5.3" Half-Round Long Nose Pliers

- Stainless steel
- Spring return
- Durable rubber handles
- 5.3" length with 1.4" plier nose
- Knurl jaws



Part No.	Description	1	10
35490EA	Half round	\$5.49	\$4.99

Impact Punch-Down Tool

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade

**175071EA:****Punch-down tool with blade**

- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H

175089EA: Punch-down blade

- Blade for 110-type terminals

SALE

Part No.	Description	1	10
175071EA	Tool w/ 66 blade	\$34.95	\$31.46
175089EA	Punch-down blade 110	14.95	13.49

D-Sub Pin Insertion/Extraction Tool

- Material: Red/white plastic body
- Exchangeable tips

SALE

Part No.	Description	1	10
19094EA	Tool	Was \$2.49	\$2.79 \$2.49

For detailed size dimensions, please visit our website at www.Jameco.com

6-Piece Rotary Brush Set



- Bristle brushes
- Copper brushes
- Steel brushes

Part No.	Description	1	5
226641EA	6-pc. rotary brush set	\$15.95	\$14.35

7-Piece Rotary Finishing Set

- Copper wire brushes
- Aluminum oxide grinding wheels
- Wool polishing wheels
- Mandrel bit



Part No.	Description	1	5
226659EA	7-pc. rotary finishing set	\$9.99	\$8.99

7-Piece Engraving Cutter Set

- Ball tips
- Arrow head, v-cut
- Flat cut
- Bullet tip, round cut
- Fine point, v-cut
- Flat head



Part No.	Description	1	5
226624EA	7-pc. engraving cutter set ..	\$17.95	\$16.15

7-Piece Grinding/Polishing Set

- Aluminum oxide cylindrical stone
- Aluminum oxide blunt nose stone
- Cylindrical cotton
- Bullet head cotton
- Cylindrical cork



Part No.	Description	1	5
226667EA	7-pc. grinding stone set	\$12.95	\$11.25

10-Piece Grinding Stone Set



Aluminum oxide stone bits:

- Cylindrical
- Blunt nose
- Bullet head
- Tear drop
- Flat edge wheel
- Round edge wheel
- Ball tip

Part No.	Description	1	5
226632EA	10-pc. grinding stone set ...	\$11.95	\$10.79

22-Piece Drum Sander Set



- 3/8" & 1/2" sander bands and bits

Part No.	Description	1	5
226616EA	22-pc. drum sander set	\$13.95	\$12.89

30-Piece All-Purpose Bit Set



- 5 sander bands
- Steel brush bit
- Copper wire brush wheel bit
- Cylindrical cotton bit
- Drum sander
- 8 aluminum carbide, cut-off metal wheels
- 4 aluminum carbide, cut-off wood wheels
- Bullet tip, round cut engraver point
- Flat head engraver point
- Aluminum oxide, cylindrical grinding stone bit
- Aluminum oxide, bullet head grinding stone bit
- Aluminum oxide, ball tip grinding stone bit
- Aluminum oxide, wheel-type grinding stone bit
- Aluminum oxide, grinding stone wheel
- Mandrel bit
- Wool polishing wheel

Part No.	Description	1	5
226675EA	30-pc. all purpose bit set ...	\$28.95	\$26.49

Variable High-Speed Rotary Tool Kit



A multiple high-speed rotary tool kit with 6-speed selections ranging from 8,000 to 30,000 RPM, along with 40 bits and accessories, provides you all the power and precision you need to tackle almost any cutting, drilling, polishing, sanding or engraving job. With its high-speed output, plus a nylon body, you can grasp the tool lightly to perform fast rough work or delicate craftsmanship. A convenient shaft-lock button provides fast-and-easy accessory bit changing.

- 9" long variable-speed rotary tool
- Drum sander wheel
- 2 felt buffing pads
- Disk sanding arbor
- 7 disk grinders
- 4 rotary files
- 3 drum sander pads
- Grinder dressing stone
- 6 disk sanding pads
- 10 rotary grinders
- 2 drill bits
- Wrench
- One-year manufacturer's warranty

Part No.	Description	1	5
211289EA	Rotary tool kit	\$44.95	\$42.95

50-Piece Cut-Off Wheel Set



- 4 aluminum carbide cut-off metal wheels
- 18 aluminum carbide cut-off metal wheels
- 6 aluminum carbide cut-off wood wheels
- 22 aluminum carbide cut-off wheels

Part No.	Description	1	5
226608EA	50-pc. cut-off wheel set	\$24.49	\$22.29

30-Day Money Back Guarantee
If you're not satisfied,
we'll take it back!

Rotary Tool Accessory Bulk Packs



226561EA/226587EA
226552EA/226579EA

226595EA

226510EA

226528EA

226472EA

226456EA

226501EA/
226499EA

226536EA

226544EA

226448EA

226464EA

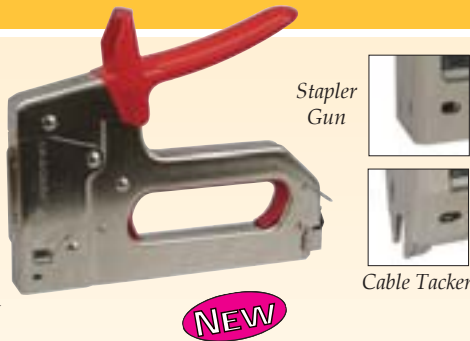
226481EA

Part No.	Description	Price	Part No.	Description	Price
226561EA	Aluminum carbide cut-off wheel 1 1/4"Dia. x 1/16"T (10 pk)	\$7.95	226456EA	Sander band aluminum oxide bit 1/2"Dia. (15 pk)	\$6.79
226587EA	Aluminum carbide cut-off wheel 1.0"Dia. x 0.02"T (20 pk)	8.49	226501EA	Copper wire wheel 1.0"Dia. (3 pk)	8.49
226552EA	Aluminum carbide cut-off wheel 15/16"Dia. x 0.02"T (20 pk)	8.49	226499EA	Copper wire wheel 3/4"Dia. (3 pk)	7.59
226595EA	Aluminum carbide cut-off wheel 15/16"Dia. x 0.02"T (4 pk), wood	4.99	226536EA	Wool polishing wheel 1/2"Dia. (10 pk)	8.95
226579EA	Aluminum carbide cut-off wheel 7/8"Dia. x 0.01"T (10 pk)	8.49	226544EA	Wool polishing wheel 1.0"Dia. (10 pk)	8.95
226510EA	Aluminum oxide grinding wheel 0.9" x 0.1" (10 pk)	7.49	226448EA	Drum sander bit 1/2"Dia. (2 pk)	2.95
226528EA	Aluminum oxide grinding wheel 0.9" (10 pk)	7.49	226464EA	Drum sander bit 3/8"Dia. (2 pk)	2.95
226472EA	Sander band 3/8"Dia. (8 pk)	6.79	226481EA	Mandrel bit, 1-7/8" x 0.1" (4 pk)	5.95

Heavy Duty Staplers

Built with all-steel construction with hardened steel working parts. These standard and cable staplers are designed for the most demanding of environments. The standard stapler is perfect for contractors, home do-it-yourselfers, and specialty trade applications. We also offer the cable tackers that are ideal for a wide variety of applications such as telephone wire, cable TV, hi-fi systems, alarm systems, intercommunications and general electrical contract work. Both are made of durable nickel-plated steel for heavy-duty use. Rubber grip assures comfortable operation.

- Handle locking • Easy rear loading
- Adjustable high impact tension knob
- Easy squeezing action
- Hand stop for safe stapling control



227969EA: Handles 5/16", 3/8", 1/2", & 9/16" staples
242878EA: 4.8mm maximum cable diameter, uses T-25 type staples, 1/4" width
242886EA: 6.4mm maximum cable diameter, uses T-37 type staples, 5/16" width

Part No.	Product No.	Description	Price
227969EA	AT-765	Standard staple gun ..	\$19.95
230295EA	T-50-5/16"	1250 staples, 5/16"L.....	2.45
230308EA	T-50-3/8"	1250 staples, 3/8"L.....	2.75
230316EA	T-50-1/2"	1250 staples, 1/2"L.....	2.89
230324EA	T-50-9/16"	1250 staples, 9/16"L.....	3.15
242878EA	AT-761	Cable tacker	\$24.95
242886EA	AT-762	Cable tacker	28.95
244988EA	T-25-3/8"	1000 staples, 3/8"L	1.69
245008EA	T-25-9/16"	1000 staples, 9/16"L	1.89
245016EA	T-37-3/8"	1000 staples, 3/8"L	1.89
245032EA	T-37-9/16"	1000 staples, 9/16"L	2.25

Nylon Cable Ties

Weather Resistant



- Contain Carbonate A for greater resistance to ultra violet rays in outdoor use • Color: black
- **Sold in increments of 100s or 1000s**

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
104141EA	18	4.0 x 0.10	\$.044	\$.029
190781EA	40	8.0 x 0.13 .....	.085	.065
190801EA	40	13.0 x 0.14 .....	.113	.088

Cable Tie Assortments

- Tensile strength: 18-50 lbs.

145701EA: 1000 pcs. (4"L); 10 colors

150412EA: 500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L), 5 colors



Part No.	Weight (lbs.)	1	10
145701EA	0.7	\$9.49	\$8.49
150412EA	1.7	13.95	11.49

Nylon Cable Tie Mount

- Screw tab & cradle mount adhesive
- 1.1" square adhesive 4-way cable tie used with 0.2"W max
- **Sold in increments of 10 or 100**



Part No.	Description	10	100
71394EA	4-way cable tie	\$.23	\$.19

Our complete selection is @ www.Jameco.com



Other Cable Tools and Accessories available online.

Heat Gun/Stripper

Dual-Setting

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F • UL listed
- Thaw pipes, frozen locks and loosen rusted bolts

Part No.	Description	1	10
76865EA	Heat gun	\$39.95	\$35.95

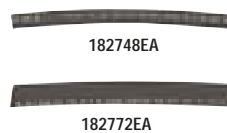
Weller® 250-Watt, 3-Setting Industrial Heat Gun

- 750°F to 800°F hot air at nozzle; 3-position switch; hot-off-cool
- Designed for assembly and repair applications such as shrink tubing and vinyl, epoxy curing/drying/cooling
- Long-life heater and fan components • ESD safe
- 120VAC @ 60Hz • 3-wire grounded plug; 6' cord

Part No.	Product No.	Description	1	10
191943EA	6966C	Heat gun	\$119.95	\$107.95

PVC Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black
- Shrink temp: 125°C
- Sold in 10' and 100' increments
- UL/CSA approved



Part No.	Dia. before (mm)	10 ft.	100 ft.
184721EA	.12" (3)	\$1.19	\$10.50
182730EA	.16" (4)	1.39	12.50
182748EA	.20" (5)	1.45	13.00
182756EA	.24" (6)	1.49	13.50
182764EA	.31" (8)	1.79	16.00
182772EA	.43" (11)	2.80	19.00
182781EA	.59" (15)	3.50	30.00

Magnetizer / Demagnetizer

Magnetize tips of screwdrivers for easy pick-up of small metal objects; demagnetize tips to prevent electrostatic discharge that will damage electronic components.

- Size: 2.0"L x 2.0"W x 1.2"D



NEW

Part No.	Description	Price
239530EA	Magnetizer/Demagnetizer	\$6.99

FLUKE

C550 Tool Bag

- Steel reinforced frame
- Rugged ballistic cloth with heavy duty hardware
- Large zippered storage compartment with 25 pockets



Part No.	Model No.	Price
214383EA	25-pocket tool bag	\$60.00

Avoid costly downtime.

This compact, handheld Data-Vac electric duster is far less expensive and better for the environment than canned air. It quickly and easily blows dust, lint and debris off keyboards, computers, printers, disk drives, fax machines, photographic and other high-tech equipment. That helps prevent costly downtime and computer repair.

- 1.73 amps/0.5HP motor • 25 CFM/10,000FPM
- 12' UL approved power cord
- Attachments: air pin pointer & power air maximizer

Part No.	Description	Wt. (lbs.)	Price
219192EA	Data-Vac electric duster	2.9	\$49.95

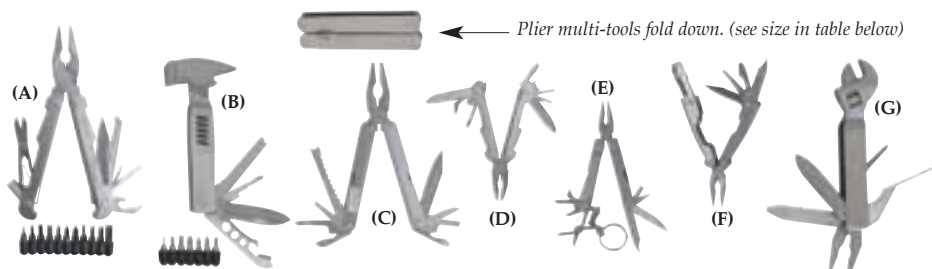
SALE Whip inflation now!

Avoid the light-headed sensation you get when blowing up a large air-filled item. If you've ever inflated a guest bed, kiddie-pool, raft or other large item the old-fashioned way, MagicAir is ready to come to your respiratory rescue. Powered by any nearby 12-volt source, this portable unit supplies plenty of air pressure for demanding inflating jobs. Indoors or out, the MagicAir is ideal for boaters, campers, or anyone who wants to give their lungs a well-deserved vacation from inflation.

Part No.	Description	Wt. (lbs.)	Price
219205EA	Electric inflator/deflator	3.94	\$39.95

Over 99% of our products are in stock! Place your order by 6PM EST for same business day shipment.

**1-800-831-4242
www.Jameco.com**



Every tool you need...everywhere you go. **SALE**

These heavy-duty all-in-one tools are handy for the car, camping, fishing and hunting; but you'll also find them indispensable for urban living.

Keep every tool you need at your fingertips...literally. Folded, these multi-function stainless steel tools fit in the palm of your hand or slip into the provided sheath on your belt. Perfect for students and others who don't want to spend a lot on tools they need only occasionally. Great gift for the handyman or sportsman.

Part No.	Description	Size	Weight	Price
227205EA	21-in-1 multi-tool (A) Includes handyman long nose pliers, wire cutter, saw blade, locking knife blade, scissors, can/bottle openers, pry bar, flat head screwdriver, 4 flat head screwdriver bits, 3 Phillips screwdriver bits, 4 hex bits, and a 1/4" nut driver.	4.75" closed	10.8 oz.	\$19.95
227213EA	19-in-1 multi-tool (B) Includes hammer, 2 nail removers, can/bottle opener, knife blade, 2 saws, 3 nut drivers Phillips screwdriver, 2 flat head and 3 Phillips screwdriver bits, and 2 hex bits.	5.0" long	10.1 oz.	19.95
227192EA	13-in-1 multi-tool (C) Includes handyman long nose pliers, wire cutter, knife blade, can/bottle openers, metal file, 3" ruler, awl, 2 flat head screwdrivers, Phillips screwdriver, pry bar, and nail pick.	4.0" closed	5.5 oz.	19.95
227184EA	11-in-1 multi-tool (D) Includes handyman pliers, wire cutter, knife blade, can/bottle opener, wood & metal files, hex nut drivers, awl, a mini and regular flat head screwdriver, and Phillips screwdriver.	3.0" closed	2.5 oz.	19.95
227221EA	11-in-1 multi-tool (E) Includes handyman long nose pliers, wire cutter, knife blade, can/bottle openers, metal file, nail pick, scissors, flat head screwdriver, Phillips screwdriver.	2.5" closed	2.0 oz.	11.95
227264EA	9-in-1 multi-tool (F) Includes spring loaded pliers, wire cutter, LED light, knife, bottle opener, metal file, nail pick, and both a Phillips and a flat head screwdriver.	2.75" closed	3.0 oz.	9.95
227176EA	8-in-1 multi-tool (G) Includes adjustable crescent wrench, spring loaded long nose pliers, wire cutter, knife blade, saw, flat head screwdriver, Phillips screwdriver, and metal file.	6.0" long	9.9 oz.	19.95

Standard Adjustable 3X Magnifying Lamp

- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts or turns in any direction
- Uses 60W incandescent bulb (not included)
- Power requirement: 110VAC/60Hz

SALE

Part No.	Description	1	10
22710EA	Magnifying lamp	\$26.49	\$25.19

Precision 5X Magnifying Lamp

With an arm that extends to 40" long, adjustable to any direction or angle, and 5X magnifying glass with built-in light, this is the perfect tool to help identify small electronic components and for soldering.

- 5" diameter lens
- Power requirement: 110VAC/60Hz

Includes: 22W circuline fluorescent bulb

Part No.	Description	Weight	1	10
197456EA	Magnifying lamp	7.1 lbs.	\$109.95	\$98.95

3X Magnifying Lamps

- 45" extension arm
- .49" Diameter lens
- Supplied with 22-watt Circuline tube
- Extra strong, all-metal mounting base w/ electrical outlet
- New wire clip design permits easy installation
- Power requirement: 110VAC/60Hz

Part No.	Description	1	10
100829EA	Black lamp	\$59.95	\$53.95
149981EA	White lamp	59.95	53.95

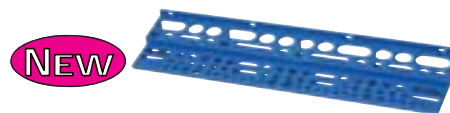
Wide View 2X Foldable Magnifier

This folding 2X magnifier is very popular among professionals needing a large-view magnifier plus the convenience of portability. Made of high-quality plastic, the frame is light with a precision glass lens. Easy-to-read scales in inches (scale of 1/16") and millimeters are etched on the base.

- Size (unfolded): 6.1"W x 5.3"D x 6.5"H

Part No.	Description	1	10
218296EA	Foldable magnifier	\$9.95	\$8.95

Multi-Tool Storage Rack


NEW

Organize and store 106 of the most common tools in 24" of wall space. Made of durable plastic material, it easily mounts on a wall with the screws that are included.

Part No.	Description	1	4
239353EA	Multi-tool storage rack	\$5.99	\$5.49

Flexible Neck Magnifier

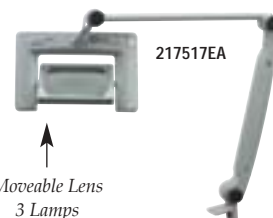
Never squint again on small fine prints or have a hard time holding a magnifying glass at the same time holding two other tools with only two hands. Just simply clamp the magnifying lens on to a table or workbench and adjust the flexible gooseneck into position.


NEW

- 3.5" diameter and 3x diopter lens • Arm length: 20"

Part No.	Description	Price
239548EA	Flexible neck magnifier	\$12.99

Adjustable or Fixed Lamps Illuminate & Magnify 3X



Moveable Lens
3 Lamps

Need a flexible magnifying solution at a terrific price? Our adjustable rectangular 3-diopter 7.0"x 4.5" diameter lens allows the magnifier independent movement from the light for best viewing angles. On-off buttons control the top and side lights separately, allowing varying light intensity.



Fixed Lens
2 Lamps

SALE

Save \$10 by choosing the fixed-magnifier lamp with a 7.0" x 5.5" diameter 3-diopter lens for a wider viewing area. One on-off switch controls top and side bulbs in unison. Both lamps provide superior illumination of the subject with their bright compact fluorescent bulbs located to the side and top of the lens. The enclosed spring-balance arms reduce the chance of pinched fingers from springs, providing a sleek clean look too. Arms can be adjusted and secured in any position. Arms extend to 47". UL listed.

Part No.	Description	Price
217517EA	Adjustable magnifying lamp	\$79.95
217509EA	3X magnifying lamp	64.95

Can't find what you're looking for? Log on for more @ www.Jameco.com.



Attached strap ensures
a secure grip!



Make all your trusty flashlights even better!

Enclose your Maglite® flashlights in these indispensable carriers and they'll automatically become twice as useful. A neoprene sheath protects your hands from that chilly aluminum shaft in the wintertime, and a strap secures your grip. Plus, a belt-clip keeps the flashlight at your side for instant access, and frees your hand when the light isn't needed. Available in C, D, and AA sizes to fit all the Maglite® flashlights in your home and shop.

Part No.	Description	Price
239994EA	'Grip' N Clip carrier for most AA flashlights	\$4.95
239986EA	'Grip' N Clip carrier for most C flashlights	8.95
239978EA	'Grip' N Clip carrier for most D flashlights	8.95

Keep your flashlight always ready, and hands-free!

The Lite-Lok would be useful enough as a tough, wall- or belt-mountable flashlight holster. But there's more! Clip the flashlight on your belt and lock it into one of eight positions for a "third hand" when working in dark areas. The AA version comes with a tough Mini-Maglite®, and the C and D models fit most standard Maglite® flashlights in those sizes. You'll be glad you've got this helping hand!

Part No.	Description	Price
240004EA	Lite-Lok with mini AA flashlight	\$19.95
240012EA	Lite-Lok for most C flashlights	18.95
240021EA	Lite-Lok for most D flashlights	18.95



Perfect for close work: Light right where you need it!

We've all been in a three-hands-needed situation where a flashlight in the mouth is the only solution. That is, until now. This hands-free holder lets you comfortably hold your own Mini-Maglite® (not included) in the perfect position. Made from FDA approved plastic and equipped with a neck cord to keep it handy.

Part No.	Description	Price
240080EA	Lite-Bite mini flashlight holder	\$2.95

Add "night vision" to any bike or scooter, instantly!

Unlike other add-on lights, the Lite-Ride installs in a snap and aims the light right where you want it! Your Mini-Maglite® (flashlight not included) becomes a versatile shock-absorbed head or tail-light in seconds, increasing safety and extending play hours. UV resistant and weatherproof, you'll want one or two for all of your bikes and scooters!

Part No.	Description	Price
240071EA	Lite-Ride for bicycles or scooters	\$5.95



Bend light (without quantum physics!) to illuminate those impossible-to-reach places!

For close work in confined areas, now you can twist and shape your light to reach where no beam has gone before! No more wrestling and squinting; these precision adaptors turn your Maglite® AA and AAA flashlights into a go-where-you-need-it lighting system. Perfect for kit-builders, maintenance work, any application where light is needed in hard-to-access places. Just choose the length (4.5" to 20") and size that's right for you.

Part No.	Description	Price
239927EA	7" adapter with AA flashlight	\$19.95
239943EA	7" adapter for most AA flashlights	6.95
239951EA	4.5" adapter for AAA flashlights	5.95
239960EA	20" adapter for AA flashlights	9.95
239935EA	20" adapter for AAA flashlights	9.95



Hands-free light, right where you are looking!

These adjustable, one-size-fits-all headbands make lighting your work a breeze. For an all-in-one solution, choose the band complete with a powerful, adjustable Mini-Maglite® (P/N 240047EA). If you want to equip your own mini-flashlight for hands-free use, order P/N 240055EA. Either way, you'll get a multipurpose, comfortable hands-free helper.

Part No.	Description	Price
240047EA	Mini-Maglite® (requires 4 AA batteries)	\$19.95
240055EA	Headband for most AA flashlights	6.95

Make any mini flashlight more versatile magnetically.

With hook-and-loop ease, your mini flashlight can now "get a grip" on your refrigerator, in your car, on your metal worktable, or any other ferrous metal surface. This clip's powerful magnet will hold it for you, right where you need it.



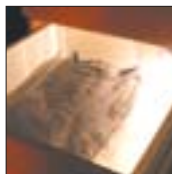
Part No.	Description	Price
240063EA	Magnetic AA flashlight clip	\$3.95

All these and more products available on our website log on today @ www.Jameco.com

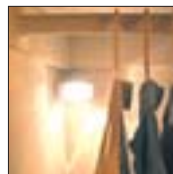
Trouble free corner touch lights right where you need it!

Banish dark corners in your drawers, closets or workshop where you always need more light. This set of three corner-ready touch lights mount easily, and they're cordless, so they're all help and no hassle. Just click-on, click-off, and you'll always be able to see what you've been missing! Four AA batteries (not included) provide many hours of light.

Part No.	Description	1	4
239345EA	Three corner touch lights	\$12.95	12.29
Part No.	Description	Price	
249210EA	AA batteries (4-pack)	\$2.56	



Drawer



Closet



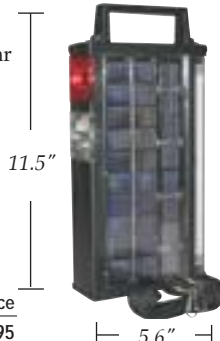
Never be without light again with our solar lantern.

The perfect light source for emergency situations. You will never run out of light with this rechargeable lantern. It features a three-way power system: solar power – charge the built-in battery during the day for night time use; 3-D size alkaline batteries; or AC/DC adapter that can also charge the built-in battery. Designed for indoor or outdoor activities with three unique features: solar fluorescent light, solar blinking light and solar searchlight.

- 8-10 hours in full sun for a fully-charged battery
- Up to 3 hours of operation when using flashlight & fluorescent light simultaneously; 10 hours of blinking light; 8 hours of torch light; 4 hours of fluorescent light
- Size: 5.6"W x 2.1"D x 11.5"H

Includes: Strap and spare bulbs

Part No.	Description	Weight	Price
219598EA	Rechargeable Solar Lantern	1.8 lbs.	\$69.95



Find More tools and accessories on our website

Log on today @ www.jameco.com



Be seen, be safe with our flexible flashing LED reflector!

NEW

One of these versatile clip-on safety flashers belongs in every glove-box, backpack and sports bag! Just clip it on and it's an instant safety reflector. Touch a button and it either flashes brightly or gives off a steady glow to make joggers, hikers and bikers even more visible. Lightweight, shock resistant and always ready, it's the perfect replacement for expensive chemical glow-sticks!

Part No.	Description	Price
240098EA	Clip-on lighted/reflective flasher	\$12.95

Bend a beam of light anywhere you want it!

Now you can easily focus from a flood light to a spot beam with the light beam of this compact, high intensity krypton lamp. Bendable arm extends to 9" and can reach places ordinary lights can't. Retains its shape, making it an ideal task light, long reach light, and clip-on light. Lightweight design lets you keep it in your pocket, or clip it on your belt. Snap on the red lens included for emergency light and night vision. The extended waterproof lamp head allows you to use it underwater. Great for pilots, boaters, and others who want to lighten up the dark. Flexible arm wraps around the case for storage and travel.



Part No.	Description	Price
235141EA	Flexible flashlight	\$4.99

Super-bright, waterproof and shockproof LED flashlight.

Need to depend on a flashlight that always works?

Super Bright White LEDs!



Its super bright white LEDs have a life of at

least 11 years of continuous use. This heavy-duty flashlight is waterproof and designed for all weather conditions. It's shockproof casing was built to withstand a drop from 4'. LED flashlights have a low cost per hour of operation because batteries last 14 times longer than in conventional flashlights. The 10-LED flashlight lasts a month of continuous use on three "D" cell batteries. The 7-LED flashlight uses 3 "C" cell batteries and lasts 25-days of continuous use. The 4-LED model lasts 14-days of continuous operation using three "AA" cell batteries.

Part No.	Description	Price
215677EA	10-LED 10.6" Flashlight	\$59.95
215685EA	7-LED 8.9" Flashlight	44.95
215693EA	4-LED 7.9" Flashlight	32.95
197000EA	2x C, 2300mAh Rechargeable Batteries	8.76
196998EA	2x D, 2300mAh Rechargeable Batteries	8.95

Fight water damage, easily and economically with this moisture test meter!

Attention homeowners, contractors and inspectors! This efficient and cost-effective moisture sensor meter lets you ferret out potential water damage, choose drier lumber, and check surfaces before painting, tiling or wallpapering. Dual scales (relative and percentage moisture) provide quick readings on a clear analog display. A 3-foot coiled cable makes it easy to get the contact probes into hard-to-reach places. Locate leaks, mash mildew and wallop wetness with this versatile handheld tool. A 9V battery, (not included), provides many hours of continues use.



Part No.	Description	Price
239361EA	Rapid moisture test meter	\$34.99
198791EA	9 volt battery	2.85

Over 99% of our products are in stock!

Place your order by 6PM EST for same business day shipment.

BK PRECISION

150kHz Sine/Square-Wave Audio Generator

Small and convenient, this audio generator can be used to test telco and audio equipment.

- 20Hz to 150kHz in 46 steps
- Low distortion R-C oscillator
- Variable output control
- Size: 5.9"L x 3.2"W x 0.8"H
- Output Impedance: 600Ω

Includes: 9VDC battery



Part No.	Prod. No.	Description	1	10
166334EA	BK3001	Audio generator...	\$78.95	\$75.99

17MHz Logic Probe

- Max input frequency: 17MHz
- Minimum pulse width: 30ns
- Input impedance: 1MΩ
- Pulse flash time: 500ms
- Audible tones for high and low
- Power supply protection: ±20V
- TTL threshold: (Lo) 0.8V ±0.2V, (Hi) 2.3V ±0.2V
- CMOS threshold: (Lo) 30% VCC, (Hi) 70% VCC



SALE

Part No.	Description	1	10
149930EA	Logic probe	\$32.95	\$29.95 \$26.99

2000-Count Pocket Multimeter

- DC voltage ranges: 200mV, 2V, 20V, 200V, 1000V
- AC voltage ranges: 200V, 750V
- DC current ranges: 200μA, 2mA, 20mA, 200mA, 10A
- Resistance ranges: 200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ
- Diode and transistor tests
- 0.5" digit height
- Removable test leads
- Size: 2.6"W x 1.0"D x 4.8"H

Includes: 9V battery



Part No.	Description	1	10
119212EA	Pocket multimeter	\$19.95	\$17.95

A great bargain 2000-count multimeter for just \$15.49.

A full-featured multimeter with the basic functions needed for testing electronic equipment. Large 0.6" 2000-count LCD backlit display and single rotary action switch for selection function and range.

Compared to simpler models this DMM features:

- Greater resolution: 100μV maximum
- 7 function / 17 ranges
- Data hold switch, backlight button
- Transistor hFE test
- DC voltage ranges: 200mV – 600V
- AC voltage ranges: 200V – 600V
- DC current ranges: 200μA – 10A
- Resistance ranges: 200Ω – 2MΩ
- Size: 5.4"H x 2.7"W x 1.2"D



GREAT Buy!

SALE

Part No.	Description	1	10
220759EA	Meter w/ diode & hFE test	\$15.49	\$13.94

Digital Multimeter Quick Selection Guide

All have VDC, VAC, Resistance and Current

* See indicated page for more details on each product

Handheld Digital Multimeters											
Manufacturer No. Best Sellers Part No.	Features Display Count * Page	Standard Functions RS-232 PC Interface Analog Bargraph Autorange True RMS Capacitance Inductance Frequency Temperature Diode Test Logic Test Continuity Test Transistor hFE Test	Price								
220812EA	Mastech M300	Below 2000	\$9.79								
27115EA	Metex M3800	Below 2000	39.95								
119212EA	JE110	Below 2000	19.95								
192647EA	Wavetek 10XL	Below 2000	44.95								
220759EA	Mastech MAS830L	Below 2000	15.49								
177480EA	AEEC2890	Below 2000	49.95								
147096EA	BelMerit DX460L	Below 2000	99.95								
211650EA	Exttech MN26	67 4000	39.95								
137461EA	Metex M3860D	67 4000	149.95								
192655EA	Fluke 175	67 6000	168.95								
185535EA	Fluke 179	67 6000	208.95								
136590EA	Mastech MY65	67 20,000	69.95								
185201EA	B&K BK5380	67 50,000	149.99								
182043EA	Fluke 189	67 50,000	398.95								
Bench-Type Digital Multimeters											
132564EA	DM441	67 20,000	219.95								
166852EA	Metex MXD4660A	67 20,000	249.95								

2000-Count Multimeter

With Temperature & Frequency Measurement

- 3½-digit LCD (1.0" digit height)
- Resolution: 100μV maximum
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 700V
- DC/AC current ranges: 200μA – 10A
- Resistance ranges: 200Ω – 200MΩ
- Capacitance ranges: 2nF – 20μF
- Frequency: 20kHz
- Wt.: 1.6 lbs.
- Temperature range: -20°C – 1000°C
- Diode, transistor and continuity testing
- Data hold switch
- Size: 4.0"W x 2.0"D x 8.0"H

Includes: Manual, probes, and 9V battery

Part No.	Mfr. Cross Ref. No.	1	10
177480EA	AEEC2890	\$49.95	\$44.95



METEX® 2000-Count Multimeter

0.5" Digit Height • LCD Readout

- Resolution: 100μV maximum
- DC voltage ranges: 200mV – 100V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 20μA – 20A
- Resistance ranges: 200Ω – 20MΩ
- Auto zeroing
- Input impedance: 10MΩ
- Overload protection: 1000VDC/750VAC

Includes: Probes, carrying case, manual & 9V battery

Part No.	Product No.	1	10
27115EA	M3800	\$39.95	\$35.95



BelMERIT 2000-Count Multimeter

- DC voltage ranges: 200mV – 1000V
- Function and range annunciators
- DC/AC current ranges: 200μA – 10A
- Diode and continuity test
- Frequency ranges: 2kHz – 20MHz
- Z_{IN} = 10MΩ
- AC voltage ranges: 200mV – 750V
- Data hold
- Resistance ranges: 200Ω – 20MΩ
- Inductance: 20mH – 20H
- Capacitance: 2nF – 2000μF
- Auto power off
- Size: 4.0"W x 1.5"D x 8.0"H

Includes: Manual, test probes and 9V battery

Part No.	Description	1	10
147096EA	2000-count multimeter	\$99.95	\$89.95



2000-Count Auto-Range Pocket Multimeter

The unique design of this full-function pocket DMM allows you to change the function with your thumb while holding it in one hand. Built-in leads. 500V overload protection.

- 3½-digit LCD display (0.43" digit height)
- Resolution: 100μV maximum
- DC voltage ranges: 2V – 500V
- AC voltage ranges: 200V – 500V
- DC current ranges: 200mA
- Resistance ranges: 2kΩ – 2000kΩ
- Diode & continuity test
- Size: 4.7"H x 2.7"W x 0.8"D

Part No.	Product No.	1	10
220812EA	M300	\$9.79	\$8.81



SALE

Full Function Pocket DMM

2000 Count 7-Function Multimeter

- 7 function/22 ranges & 6 range volt tester
- Large 17mm (.67") display
- DC voltage ranges: 200mV – 1000V
- DC current ranges: 200μA – 10A
- Safety tester: 6, 12, 24, 50, 110 and 220 volts

Part No.	Model No.	1	10
192647EA	10XL	\$44.95	\$40.49

- Unique voltage Safety Tester™
- Resolution: 0.1mV maximum
- AC voltage ranges: 200V – 750V
- Resistance ranges: 200Ω – 20MΩ
- Diode test and continuity beeper

SALE



Fluke 175/179 6000-Count Digital Multimeters

- Min./max./average functions
- Auto hold and manual hold
- IEC 1010 rating Cat IV 600V/ Cat III 1000V
- Resolution: 100 μ V maximum
- DC/AC voltage ranges: 600mV – 1000V
- DC/AC current ranges: 60mA – 10A
- Resistance ranges: 600 Ω – 50M Ω
- Also capacitance and frequency
- Size: 6.3"L x 3.3"W x 9.2"H
- Weight: 1.5 lbs.



185535EA

185535EA (Fluke 179): • Temp.: -40 to +400°C

Part No.	Model No.	DC Accuracy	1	5
192655EA	Fluke 175	0.15%	\$168.95	\$159.95
185535EA	Fluke 179	0.09%	208.95	198.49



Our Lowest Priced 20,000-Count Multimeter

- Extra-large digits (0.8" digit height)
- Resolution: 10 μ V maximum
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 2V – 700V
- DC/AC current ranges: 2mA – 10mA
- Resistance ranges: 200 Ω – 200M Ω
- Capacitance ranges: 200pF – 20 μ F
- Measures transistor h_{FE} & continuity
- Hold button • Auto power off



Includes: Boot, 9V battery, probes & manual

Part No.	Product No.	1	10
136590EA	MY65	\$69.95	\$62.95

4000-Count, 11-Function Multimeter with Autorange

- 4000-count large LCD display
- Auto ranging with manual override
- Resolution: 0.1mV max.
- AC/DC voltage ranges: 400mV – 600V
- AC/DC current ranges: 400 μ A – 10A
- Resistance ranges: 400 Ω – 40M Ω
- Capacitance ranges: 4nF – 200 μ F
- Frequency ranges: 10Hz – 10MHz
- Temperature ranges: 0°F – 1400°F (0°C – 760°C)
- Diode test, duty cycle and continuity
- Relative zero, data hold, range hold, auto off
- Size: 2.4"W x 1.6"D x 4.8"H
- Weight: 0.6 lbs.



Includes: Protective holster with stand, two 1.5V AAA batteries and test leads

Part No.	Description	1	10
211650EA	Multimeter	\$39.95	\$37.95



VT201 Non-Contact Voltage Detector



- Both visible and audible voltage indicators
- 70-440VAC range
- Detects AC voltages with no electrical contact

Part No.	Description	Price
214447EA	Non-contact voltage detector	\$9.95

More @ Jameco.com

4000-Count Multimeter with RS-232, Dual Display & Inductance

- Dual displays for comparative measurements
- 3 $\frac{1}{2}$ -digit LCD (5" digit height)
- Resolution: 100 μ V maximum
- DC voltage ranges: 400mV – 1000V
- AC voltage ranges: 400mV – 750V
- DC/AC current ranges: 400 μ A – 20A
- Resistance ranges: 400 Ω – 40M Ω
- Temp.: -40°C to +1200°C; 1°C res.
- Measures inductance, capacitance, transistor h_{FE} and frequency
- Autoranging all measurement settings
- Includes: 9V battery, software and cable



METEX®

Part No.	Product No.	1	10
137461EA	M3860D	\$149.95	\$134.99

50,000-Count Digital Multimeter with Analog Bar Graph

- True RMS reading • 0.55" digit height
- Auto and manual ranging
- AC/DC voltage protection
- Continuity and diode testing
- Basic DC accuracy: BK5380 – 0.025%
- DC voltage: 500mV to 1000V (10 μ V to 100mV resolution)
- Resistance: 500 Ω -50M Ω (10m Ω -1k Ω)
- Capacitance: 50nF – 50mF (10pF – 10 μ F res.)
- Frequency: 0.6Hz – 500kHz



BK PRECISION

Includes: Probes and manual

Part No.	Product No.	1	10
185201EA	BK5380	\$149.99	\$127.49

Fluke 189 50,000-Count Multimeter w/ Data Logging

- Digital and analog bar graph display
- Backlight with 2 brightness levels
- Fast auto range • AC/DC true RMS
- Resolution: 1 μ V maximum
- DC/AC voltage ranges: 50mV – 1000V
- DC/AC current ranges: 500 μ A – 10A
- Resistance ranges: 500 Ω -30M Ω
- Also capacitance, frequency and temperature
- Conductance, diode testing and continuity function capable
- Data logging: 288 intervals stored; 100 readings
- Size: 8.0"L x 3.9"W x 2.0" Thick



FLUKE

Part No.	Model No.	Weight	1	5
182043EA	Fluke 189	2.0 lbs.	\$398.95	\$378.95

20,000-Count Benchtop Digital Multimeter

- 4 $\frac{1}{2}$ -digit display, 5-digit green LCD
- DC accuracy: 0.05%
- Full overload protection
- Resolution: 100 μ V max.
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 10A
- Resistance ranges: 200 Ω – 20M Ω
- Frequency measurement up to 200kHz
- Continuity check w/ beeper • True RMS in AC range
- Data hold, diode check, transistor h_{FE} measurement



True RMS

Part No.	Product No.	1	10
132564EA	DM441	\$219.95	\$209.95

20,000-Count Benchtop Multimeter w/ RS-232, Analog Bar & 4 Displays

- Automatic polarity indicator
- 1-2 readings per second
- DC accuracy: 0.1% +5 digits
- 10 reading storage & compare
- Resolution: 10 μ V maximum
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 20A
- Resistance ranges: 200 Ω – 20M Ω
- Frequency ranges: 20kHz – 20MHz
- MIN., MAX., AVE., relative functions
- Logic, diode, transistor h_{FE} and continuity test



METEX®

Includes: Manual, power cable, probes and software

Part No.	Product No.	1	10
166852EA	MXD4660A	\$249.95	\$224.95

Passive Component LCR Meter

- Measures L, C, and R with secondary parameter Q, D or R; both are displayed
- Accuracy of 0.7% for L & C, 0.5% for R
- Inductance ranges: 2000.0 μ H to 2000.0H
- Capacitance ranges: 2000.0pF to 2000.0 μ F
- Resistance ranges: 20.000 Ω to 20.000M Ω
- Test frequencies of 120Hz and 1kHz
- Quality (Q) reading: 0 to 9999
- Dissipation Factor (D) (with C) reading: 0 to 0.9999
- Selectable parallel or series equivalent circuit
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off



EXTECH

Includes: Leads, alligator clips, 9V battery & holster

Part No.	Description	1	10
198678EA	LCR Meter	\$178.95	\$160.95

2000-Count Digital LCR Meter

- Inductance ranges: 200 μ H to 200H
- Capacitance ranges: 200pF to 2000 μ F
- Resistance ranges: 2m Ω to 20M Ω
- Dissipation factor measurement
- Size: 6.7"L x 3.3"W x 1.4"D
- One-year warranty



Includes: Test leads and 9V battery

Part No.	Description	1	10
127538EA	LCR meter	\$139.95	\$125.95

Mini DC/AC Current Clamp Meter/Multimeter

- Bright 1/2" LCD display with DATA HOLD
- 0.5" digit height
- Size: 7.1"L x 1.9"W x 1.4"H



Requires: 9V battery not included (P/N 151095EA, pg 34)

Includes: Test leads, manual and case

Part No.	Description	1	10
115756EA	Mini DC/AC clamp meter	\$119.95	\$107.95

ACA*	20A, 200A	$\pm 1.2\% + 5d$
DCA	200A	$\pm 1.2\% + 5d$
ACV*	500V	$\pm 1.0\% + 2d$
DCV	200V	$\pm 0.8\% + 1d$
Resistance	200 Ω	$\pm 1.2\% + 1d$
*Freq.Response	40-400Hz	
Zero Adjust	External knob for DCA	

METEX® 4-in-1 Universal System*With Function Generator, Universal Counter, DC Power Supply & Digital Multimeter*

- Generate 7 forms of waves in 7 frequency ranges from 0.2Hz to 2MHz
- Measure frequency ranges from 5Hz to 1.3GHz
- Generate 5V @ 2A, 15V @ 1A fixed and 0 to 30V @ 0 to 2A variable
- Ranges: DC voltage (400mV to 100V), AC voltage (400mV to 750V), DC/AC current (40mA to 20A), resistance (400Ω to 40MΩ), capacitance (4nF to 400pF) and forward resistance of a semiconductor junction in kΩ
- Size: 14.5"W x 14.0"D x 7.0"H • Weight: 37 lbs.

Includes: Manual, cables and software

Part No.	Product No.	1	5
160864EA	MS9150	\$549.95	\$499.95

**Save bench space & \$800!****2MHz Function Generator and 2.7GHz Frequency Counter***Function Generator: (2Hz - 2MHz)*

- Wave forms: sine, square, triangle, skewed, ramp, pulse & TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges
- Output impedance: 50Ω ±10%
- Output amplitude: 2 to 20Vpp at open load; 1 to 10Vpp at 50Ω load
- Offset variable range (max.): ±10VDC at open load
- Frequency sweep time: 20ms to 2s

Frequency Counter: (5Hz - 2.7GHz)

- Measuring range: channel A: 1Hz to 20MHz; channel B: 20MHz to 2.7GHz
- Input sensitivity: channel A: 20mVRMS sinewave or 100mVp-p; channel B: 40mVRMS for 20MHz to 1.3GHz; 70mVRMS for 1.3GHz to 2.7GHz
- Max. input voltage: channel A: 35Vp-p; channel B: 3Vp-p
- Input impedance: channel A, 1MΩ; channel B, 50Ω
- Data logging and graphic software

Includes: Coax & power cable, manual, serial cable and software

Part No.	Description	1	5
192671EA	Function generator/counter	\$319.95	\$303.95

2MHz Function Generator

- Frequency range: 0.02Hz to 2MHz
- Waveforms: sine, triangle, square, ramp, TTL pulse, skewed sine
- Variable waveform/duty cycle symmetry
- DC offset voltage from 0 to ±10V; can be superimposed to output waveform
- Output volt.: 20Vp-p (open circuit), 10Vp-p (into 50Ω)
- Input voltage: 110V/220V 50-60Hz

Includes: Power cord, BNC to clip cable, fuse & manual

Part No.	Product No.	1	5	10
66069EA	FG8002	\$189.95	\$179.95	\$169.95

**www.Jameco.com/DMM**

See our website for Jameco's complete selection of Digital Multimeters!

250-Watt Analog Power Supply**50VDC @ 5A**

- Adjustable voltage/current outputs
- Constant voltage and current operation
- Color-coded adjustment knobs for voltage, current, and fine tuning
- Color-coded terminals for ground, positive, negative
- 5A @ 250V fuse • Isolated ground
- Input voltage: 110VAC @ 50-60Hz
- Size: 4.9"L x 7.7"W x 6.7"H • Weight: 13.8 lbs.

Part No.	Mfr. Cross Ref. No.	1	10
175249EA	DPS5050	\$189.95	\$179.95

**225-Watt Analog Power Supply****15VDC @ 15A**

- Output voltage: 9VDC to 15VDC
- Output current: 25A max. (22A continuous @ 13.8VDC)
- Constant voltage operation
- Over-voltage protection @ 16.5V
- Short-circuit protection @ 27.5A
- Color-coded adjustment knob and output terminals for voltage
- Built-in fan
- Cigarette lighter plug for current output
- Power and fan LED indicator • Weight: 3.8 lbs.
- Voltage and current panel meter
- Input voltage: 110VAC/220VAC @ 47-63Hz (switchable) • Size: 5.6"L x 6.2"W x 4.0"H

Part No.	Mfr. Cross Ref. No.	1	10
175257EA	SPS250A	\$169.95	\$152.95

**190-Watt Triple Output Power Supply***Digital Display*

- Output voltage: 0 to +30VDC @ 3A, 0 to -30VDC @ 3A, +5VDC @ 2A
- Ripple voltage: less than 3mVp-p
- Volt and current meter: LED display (±1% + 1 digit) • Overload protection circuit
- Input volt.: 100VAC-230VAC @ 50-60Hz (switchable)

Includes: Manual and spare fuse

Part No.	Product No.	1	5
157518EA	GP4303TP	\$549.95	\$529.95

**150-Watt Analog Power Supply****50VDC @ 3A**

- Adjustable voltage/current outputs
- Constant voltage & current operation
- Color-coded terminals for ground, positive and negative terminals
- 3A @ 115V fuse
- Color-coded adjustment knobs for voltage, current and fine adjustment
- Input voltage: 110VAC @ 60Hz
- Size: 9.0"L x 4.75"W x 7.5"H • Weight: 12.3 lbs.

Part No.	Description	1	10
163723EA	50VDC @ 3A	\$159.95	\$144.95

**150-Watt Linear Power Supply****15VDC @ 10A**

- Output voltage: 2VDC to 15VDC
- Output current: 15A max.
- Constant voltage operation
- Color-coded terminals for positive and negative terminals, voltage adjustment knob
- Overvoltage, overcurrent, short-circuit protection
- Cigarette lighter output current plug
- LED indicator for power and warning
- Current and voltage panel meter
- Built-in fan • Input voltage: 110VAC @ 60Hz
- Size: 5.7"L x 6.2"W x 4.0"H • Weight: 12.0 lbs.

Part No.	Mfr. Cross Ref. No.	1	10
175265EA	DPS150A	\$149.95	\$134.95

**150-Watt Digital Power Supply****30VDC @ 5A**

- Adjustable voltage/current outputs
- Constant voltage and current operation
- LCD displays for both current and voltage
- Coarse and fine adjustment knobs for current and voltage
- Color-coded terminals for positive, negative and ground connections
- 2A @ 250V fuse • Dual digital display
- Input voltage: 110/220VAC @ 50-60Hz (switchable)

Part No.	Description	1	10
153242EA	30VDC @ 5A	\$234.95	\$211.49

**100-Watt Digital DC Power Supply****30VDC @ 3A**

- Triple output with fixed 5VDC @ 0.5A, 12VDC @ 0.5A
- Adjustable 0 - 30V voltage and 0 - 3A current outputs
- Displays of both voltage and current
- Constant voltage • Current limiting indicator
- Overload and short circuit protection
- Binding post terminals for variable supply
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Size: 9.5"L x 6.0"W x 5.6"H • Weight: 10 lbs.

Part No.	Description	1	10
197991EA	Digital DC	\$198.95	\$178.95

EXTECH
INSTRUMENTS**150-Watt Benchtop Power Supply***Single Output*

- Power: 150W
- 30VDC @ 5A
- Display: 2-Analog
- Voltage and current adjustable
- Input voltage: 110/220 ±10% VAC
- Current restricted and short-circuit protection • Analog display accuracy: 2.5%
- Size: 5.4"W x 6.2"H x 11.5"D

Part No.	Description	1	10
207618EA	Digital DC	\$159.95	\$144.95

MASTECH

**Logic Pulser**

- Compatible w/ TTL, DTL and CMOS ICs
- "One shot" or continuous 5Hz train pulse
- 1MΩ sync input impedance • Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10μs • Square wave current output: 5mA

Part No.	Description	Output Current	Size	1	10
24601EA	Logic pulser	10mA	7.8"L x 1.0"W x 0.6"H	\$19.95	\$17.95



Handheld 5MHz Oscilloscope with 4000-Count Digital Multimeter

- 128 x 128 pixel graphic STN LCD
- E/L backlight
- PC interface via RS-232
- Memory and recall for 4 values
- With temp. measurement

Oscilloscope:

- DC-5MHz bandwidth; 20MS/sec. sampling rate; single channel
- Vertical axis: 3 steps ($\pm 0.5/5/50$ volts) with 4 divisions
- Horizontal axis: 16 steps (800ns/div to 26.2ms/div) in 8 divisions
- Trigger: auto and internal mode, slope and 5 trigger level selectable
- Text display for peak to peak, min./max. voltage and frequency

Digital Multimeter:

- 3 1/2-digit with 43 segment bargraph
- Auto ranging; triple display for related reading; data and range hold; auto/min/max hold and relative offset
- DC voltage ranges: 400mV – 1000V
- AC voltage ranges: 4V – 750V
- DC/AC current ranges: 400uA – 400mA
- Resistance ranges: 400 Ω – 40M Ω
- Frequency ranges: 4kHz – 4MHz
- Temp. ranges: -40°C – +1200°C
- Capacitance ranges: 4nF – 400uF
- Size (unit): 3.4"W x 1.5"D x 8.0"H • Weight: 3.9 lbs.

Includes: Manual, power adapter and test leads



221962EA

METEX®

Part No.	Description	1	5
221962EA	MS-1280 (w/ temperature)	\$349.95	\$332.49
221938EA	RS-232 cable & software	19.95	18.95
221946EA	Scope probe	24.95	23.69
221954EA	Holster	5.95	5.65

FLUKE

Scopemeter® 123

- Dual input 20MHz digital oscilloscope
- Two 5,000 count True RMS digital multimeters
- Dual-channel TrendPlot paperless recorder • CAT III 600V
- Connect-and-View trigger simplicity for hands-off operation • Three-year warranty



Part No.	Model No.	Price
160661EA	Fluke 123/003S	\$1,195.00

PC-MultiScope 100MHz Dual-Channel DSO



Turn your PC into a digital storage oscilloscope for 1/2 the cost of a DSO!



mission technology

- 100MHz sampling; dual channel
- Chart recorder and FFT mode
- 5mV to 5V per div.; 20MHz bandwidth; ext. trigger
- 0-4MHz sine and square wave signal generator
- Triple power supply; 5VDC @ 500mA and $\pm 0-8$ VDC @ 250mA • One-year warranty

Includes: Parallel port cable, AC adapter, alligator clip probe, Windows® 3.1/95/98 software

Part No.	Description	1	10
163230EA	PC-MultiScope 3	\$579.95	\$529.95

Handheld 20MHz Digital Oscilloscope & Multimeter

- 4-in-1: digital oscilloscope, DMM, frequency counter & logic analyzer

- **Oscilloscope:** 2-channel input, 5mV-2V/div; DC-20MHz(-3dB); 50ns - 0.5us/div; 20 MS/s sampling rate

- **Logic analyzer:** 8 inputs; 1.4V threshold level; 35VDC max. input; 50ns min. pulse width

- **Digital multimeter:** 3 1/2-digit (max. 3999 counts); 40 segment analog bargraph; AC/DC voltage 400mV-600V; AC current 40uA-400mA; DC current 400uA-400mA; resistance 400 Ω -40M Ω ; continuity & diode testing

- **Frequency counter:** 5Hz-20MHz; 5 digit max.; autoranging; AC/DC/DC input coupling; ± 10 ppm accuracy; 35Vrms/42V-P/60VDC max. input

- Oscilloscope probes: Use P/N 22891EA and 216047EA pg 70 • One-year warranty

- Battery required for portable use (see below)

- Size: 10.0"L x 5.0"W x 2.0"H • Weight: 9.2 lbs.

Includes: Manual, 5VDC @ 3A power supply, power cord, DMM test leads, holster and case

Part No.	Description	1	5
162430EA	20MHz digital scope	\$749.95	\$712.49
162974EA	Logic probe	59.95	53.95
163141EA	Rechargeable battery	45.95	41.49
162966EA	RS-232 cable and software	26.95	24.25
221946EA	Scope probe	24.95	23.69



(Shown w/ logic probe P/N 162974EA - not included)

SALE

Handheld Oscilloscope and Multimeter

Six Units in One!

- 4,000 count True RMS DMM
- 1MHz bandwidth oscilloscope
- 20MHz sampling rate
- Logic test • Frequency counter
- Trend mode allows recording of sine waves for a period of time
- Component test

Includes:

AC charger, test leads and manual

SALE



Part No.	Description	1	5
160805EA	440 digital oscilloscope	\$349.95	\$309.95
168330EA	RS-232 software and cable	69.95	62.95

EZ DIGITAL

20MHz 2-Channel Oscilloscope



Blue CRT for higher resolution!

SALE



- 6" rectangular high-resolution blue CRT with internal graticule & scale
- Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps
- Horizontal deflection: 0.2us/div to 0.2s/div in 19 calibrated steps, 1-2-5 sequence
- Max. signal input voltage: 250V (DC and peak AC)
- ADD function measures sum of two signals
- Input voltage: 98-125VAC @ 1A, 198-225VAC @ 0.5A, 50-60Hz, 45W

Includes: Two X1/X10 40MHz probes, power cord, manual, and block diagram

Part No.	Prod. No.	Description	1	5
136098EA	OS5020	20MHz scope	\$399.95	\$385.95

50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

- Sampling frequency: 1.25kHz-50MHz real-time; 1GHz repetitive
- Input impedance: 1M Ω /30pF
- Parallel Port Interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V (AC and DC)
- Power required: 9V to 10V @ 1000mA (recommend P/N 100888EA, pg 39)



valleman

Oscilloscope:

- Timebase: 20ns-100ms per division
- Input sensitivity: 5mV-15V per division with auto step-function
- Recording length: 4096 samples per channel

Spectrum Analyzer:

- Frequency range: 0 to 25MHz

Transient Recorder:

- Time scale: 20ms/div-2000s/div
- Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s

System requirements: IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

Includes: 2 test leads, PC parallel cable, manual and CD-ROM software

Part No.	Product No.	1	5
200184EA	PCS500AU	\$478.95	\$429.95

EZ DIGITAL

20MHz 2-Channel Oscilloscope with 1MHz Function Generator

- Basic specs same as 136098EA (below)
- 7 function generator
- Frequency range: sine, triangle, square, TTL pulse
- Output impedance: 50 Ω
- Output voltage: 14Vp-p



2 Instruments in 1

Part No.	Product No.	Description	1	10
94650EA	OS5020G	Func. gen.	\$529.95	\$499.95

100MHz 2-Channel Oscilloscope

- 2-channel dual trace
- Delay line
- Auto focusing according to the change of intensity



Part No.	Product No.	1	5
121179EA	OS5100	Was \$1195.95	\$999.95

2-Channel, 1.5GHz Frequency Counter

- Frequency, period, totalize, RPM
- Gate time: 0.01s, 0.1s, 1s, 10s
- 9-digit green LED display
- Input power: AC 110V/220V $\pm 10\%$, 50-60Hz

Includes: Fuse, manual and BNC cable

Channel	Frequency Range	Resolution
A	0.1Hz-150MHz	0.1nHz-10kHz
B	50MHz-1.5GHz	0.1Hz-100kHz

Part No.	Product No.	1	5
55790EA	FC7150	\$299.95	\$259.95

Hot no-touch thermometer technology at a very cool price.

Take exact temperature readings with this tiny beauty in tight, unreachable or hazardous locations, from a safe distance and without the need for contact with the target. Just point the integrated laser pointer at the spot you want to measure and get a precise readout on the large, digital display. The data hold/max hold allows easy recording and comparison measurements, and a wide temperature range (-58°F to +518°F) gives you maximum flexibility. At just 2.7 ounces you can carry it anywhere. Flip a switch to shift from °F to °C for different applications. The 6:1 field of view can pinpoint hot spots easily. Works with two included AAA batteries.

Part No.	Description	Price
219361EA	Extech no-touch thermometer.....	\$59.99

Pocket Size

Best Seller



3.8"

New submersible thermometer for less than \$20!

Best Seller



- 2.75" stainless steel stem
- Digital display of 0.1° resolution
- °C/°F switchable ranges -40°F to 392°F (-40°C to 200°C)



Waterproof housing allows thermometer to be completely submerged in water

- Max./min. recall of high and low temperature
- HOLD and AUTO-OFF features
- Size: 5.9"L x 0.8"W x 0.7"T • Weight: 0.1 lbs.

Includes: LR44 button battery and protective cover

Part No.	Description	1	5
218077EA	Waterproof thermometer	\$18.95	\$17.95

Heavy Duty pH/mV Temperature Meter

- Dual display for pH or mV and temp.
- Degrees C/°F switchable
- Easy 2-point slope and cal adjustments at pH4 and pH7
- Min./max., and average recall
- Super-large LCD w/contrast adjust
- Manual and auto temperature compensation using temperature probe

EXTECH



- Auto shutoff and data hold
- Low battery indicator
- Size: 7.0"L x 2.9"W x 1.3"T • Weight: 0.8 lbs.

Includes: Temp. probe, pH probe and carrying case

Part No.	Description	1	5
223861EA	Heavy duty temp. meter	\$268.95	\$255.49
218131EA	Tripak buffers for calibration ..	24.95	23.69
218149EA	Vinyl carrying case	9.95	9.49

Digital Light Meter

- Lux and footcandle
- Range: 0 - 50,000 Lux 0 - 5,000 Fc
- Analog output connections
- Separate light sensor for optimum location sampling
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H



Part No.	Description	1	10
131764EA	Digital light meter	\$99.95	\$89.95

Mini Thermo-Anemometer



Foldable housing extends 9" for better reach



Waterproof, pocket size with air velocity, temperature and windchill, all in one. Ideal for checking blowers, fans, exhaust hoods and balancing AC/HT ducts.

- Measures temperature and windchill from 0°F to 122°F (-18°C to 50°C)
- Measures wind speed in ft./min. MPH, m/s, km/h, knots and Beaufort force
- Auto shut-off
- Large dual display for air velocity and temperature
- Water resistant housing floats and drop tested to 6'

Includes: CR2032 lithium battery and lanyard

Part No.	Description	1	5
218085EA	Mini thermo-anemometer	\$88.95	\$84.49

Modular Oscilloscope Probes

- 60MHz, 100MHz, 250MHz
- Hook and pointed probes
- 216047EA: with IC test ground cover and spring ground contact
- Alligator clip ground wire
- Maximum input voltage: 600V
- BNC male connector • Length: 5'



22891EA

Part No.	Bandwidth (±3dB)		Impedance (R/C) *	
	Attenuation		Attenuation	
	x1	x10	x1	x10
22891EA	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF
216047EA	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF

* with 20pF oscilloscope input

Part No.	Mfr. Cross Ref. No.	1	10
22891EA	LF101E	\$22.95	\$20.79
216047EA	HF-9100	34.95	29.95

Pomona® Test Lead Holders

- Length: 11"
- 155985EA: • Max cable dia.: 0.450" • Color: blue
- 155977EA: • Max cable dia.: 0.320" • Color: black
- 155969EA: • Max cable dia.: 0.210" • Color: orange



155977EA

Part No.	Prod. No.	No. of Slots	1	10
155985EA	2708B	9	\$9.95	\$9.45
155977EA	4408	10	9.95	9.45
155969EA	1508	14	9.95	9.45

Electromagnetic Radiation Meter

Electromagnetic radiation is all around us, some of it not so friendly; but until now there's never been an easier, more portable device to detect and measure it. Whether you're concerned about your kid's playground near the power station, the laboratory, microwave oven emissions, or searching for clandestine surveillance devices; the ZAP Checker can give you a new measure of peace of mind. Its portability and multiple settings allow you to search out EMR whenever and wherever you want, from your home or office environments to hotel suites and conference rooms.

- Range: 10MHz to 4.5GHz

Part No.	Description	1	10
217808EA	ZAP checker	\$129.95	\$114.95

Best Seller



Banana to Banana Test Leads

- Stackable
- Color coded; 2 each red, yellow, blue, black, white
- 9.8" long
- 10 per package
- 18 AWG wire



Part No.	Description	1	10
77841EA	Test leads	\$22.95	\$20.69

BNC to Alligator Clip Test Cable

Permits BNC assembly to be used as a test cable.

- Upper connection: two alligator clips - red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable w/ BNC connector



Part No.	Description	1	10
11383EA	BNC cable	\$3.49	\$2.49

Double Banana Plugs

- Dual gold-plated female banana plugs
- Stackable



Part No.	Description	1	10
125209EA	Blk banana connector	\$2.65	\$2.39
125217EA	Red banana connector	2.39	2.15

Alligator Clip Leads

- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors



Part No.	Description	1	10
10444EA	Alligator leads	\$3.99	\$3.59

Pomona® Stackable Banana Test Lead Cables

- 5000V @ 15A
- Color-coded, 15" long
- 45VAC @ 5A max.; beryllium copper contact and glass filled insulation
- 159901EA: Two 24" leads
- 159919EA: Two 36" leads



Part No.	Prod. No.	Description	1	10
159898EA	3782-36	Mini w/ banana	\$7.95	\$7.19
159901EA	B-24-02	Patch cord	9.95	8.95
159919EA	B-36-02	Patch cord	9.95	8.95

1 1/16" Banana Plugs

- .1875" lead opening
- Set-screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- Insulating sleeve is threaded to banana plug body

Includes: One red and one black plug

Part No.	Description	Size	1	10
72194EA	Banana plugs	1.6"L x 0.4"Dia.	... \$1.59	\$1.49

Mini-Clip Test Leads

These spring loaded mini-clips hook easily to IC pins for testing.

- Set of five: red, blue, green, black and yellow
- 14"L; clips on both ends
- 26 AWG to 300V CSA/UL approved wire

Part No.	Description	1	10
135298EA	Mini test leads	\$11.49	\$10.39

Mini Test Clips

- Two lengths
- One black and one red hooked probe clip

Part No.	Description	1	10
114809EA	1.75" mini test clips	\$1.89	\$1.49

Mini- Clip BNC to Clip Test Cable

BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video & test equipment.

Part No.	Description	Length	1	10
11463EA	Mini-clip RG174	39"	\$4.39	\$3.99

More available on our website www.jameco.com

PCI Ultra High-Speed Parallel

Single Ultra High-Speed Port

- Supports ECP and EPP
- 32-byte FIFO
- Transfers data up to 2MB/sec.
- Supports IRQ sharing
- Plug & Play ready
- 1 DB25 female connector
- 32-bit PCI interface
- Size: 4.7"L x 2.2"W

System requirements: 486/586 and higher compatibles; Windows® 95/98/NT/2000

Includes: Manual and drivers on CD-ROM

Part No.	Description	Weight	1	10
171926EA	PCI single parallel	0.5 lbs.	\$39.95	\$35.95

PCI Ultra ATA/133 Controller Card

- Supports 4 IDE devices
- 133Mbytes/sec burst data rate on PCI local bus and IDE bus
- Widest range of compatible IDE/ATAPI devices
- Supports Windows® 98/ME/NT 4.0/2000/XP
- Enhanced BIOS on board
- Size: 5.2"L x 2.5"W

Includes: 80-wire/40-pin cable, 3.5" drivers & manual

Part No.	Description	1	10
208021EA	Ultra 133 controller card	\$49.95 \$44.95	\$39.95

ISA Fast SCSI-II Controller

- Compatible with DOS, Windows®, Windows® NT, Windows® 95, OS2 Network, and SCO Unix
- Internal and external SCSI-II connectors
- Size: 6.3"L x 2.9"W

Includes: Setting sheet, ribbon cable, & software (3.5" disk)

Part No.	Description	1	10
149294EA	ISA SCSI-II controller	\$44.95	\$39.95

ISA Controller Card

- 16-bit data transfer which is fully compatible with IBM PC/AT interface
- Supports two floppy disk drives (360k, 720k, 1.2Mb, 1.44Mb)
- Controls two "AT BUS" hard disk drives
- High bandwidth host interface works up to 16MHz host I/O clock
- Size: 5.5"L x 2.1"W

Part No.	Description	1	10
206316EA	ISA controller card	\$19.95	\$15.96

RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.
- Data rate: 1MB/second
- 4-wire full duplex or 2-wire half duplex
- Controlled by RTS signal
- Point-to-point and multidrop operations
- RS-485: terminal block & RJ11 connections
- RS-232: DB25 female connector
- Input: 110VAC
- 197931EA: port powered (Power adapter not included)
- Data rate: 100kbps
- 122956EA: features RS-485SI optical isolation: 2000V

Part No.	Description	1	10
117701EA	RS-232-485/422	\$57.95	\$51.95
197931EA	RS-232-485/422	69.95	62.99
122956EA	RS-232-485/422 OPT ISO	119.99	107.99

ISA IDE Super 16-Bit I/O Plus

Supports 2 IDE and 2 Floppy Drives

- Parallel printer port interface (P/N 131318EA is bidirectional)
- Game port
- Two RS-232 serial ports
- UART emulation: 67061EA: 16450; 131318EA: 16550

Includes: Manual and cables

Part No.	Description	1	10
67061EA	16450 UART I/O	\$14.95	\$13.49
131318EA	16550 UART I/O	29.95	26.95

PCI Ultra High-Speed I/O

Serial 16C550 and Parallel Port

- 32-bit PCI bus with PCI bus 2.1 specification compliant
- Serial ports are software configurable w/ throughputs up to 921.6kbps
- BPP/SPP mode compliant
- Windows® 95/98/NT 4.0 drivers supported
- 169594EA: 2 serial DB9M on card and 1 parallel DB25F panel bracket assembly

Part No.	Description	1	10
146667EA	Dual serial (16C550)	\$38.95	\$36.95
169594EA	2 serial (16C550) and 1 parallel	59.95	53.95

PCMCIA RS-232 Interface

PC card/PCMCIA-based serial port card.

- Low cost single port RS-232 interface
- Uses 16550 UART
- 5, 6, 7 or 8 data bits
- Odd, even or no parity
- 115k baud data rates
- Configured as COM1, COM2, COM3 or COM4
- PCMCIA type II compliant

Part No.	Description	1	10
164451EA	PCM-COM232 card	\$119.95	\$104.95

GPIO IEEE-488.2 Board

PCI Bus

- 1 MB/s transfer rates
- 1024 word FIFO buffer

Part No.	Mfr. Cross Ref. No.	1	10
177121EA	PCI-GPIB-1M	\$398.95	\$358.95

PCI High-Speed Multi-Port Serial I/O

2, 4 or 8 16C650 Serial Ports

- 32-byte FIFO
- Plug & Play compatible
- Standard RS-232 interface
- Transfer rate: up to 921kb/sec.
- Supports IRQ sharing
- 172005EA: Dual 16C650 Serial Ports (2) DB9 M Conn.
- Includes: Manual and drivers on CD-ROM & floppy
- 171547EA: Quad 16C650 Serial Ports
- Includes: Manual, cable (37-pin male to 4 DB25 male) and drivers on CD-ROM
- 171660EA: Eight 16C650 Serial Ports
- Includes: Manual, internal cable w/ bracket, 2 cables (37-pin male to 4 DB25 male) & drivers on CD-ROM

- System requirements: 486 and higher compatible, Windows® 95/98/NT/2000

Part No.	Description	1	10
172005EA	2-port PCI serial	\$48.45	\$43.65
171547EA	4-port PCI serial	129.95	116.95
171660EA	8-port PCI serial	179.95	161.95

ISA 2-Port High-Speed Serial I/O

Dual 16C650 UART Ports

- 16-byte FIFO
- Transfer rates up to 921kb/sec.
- IRQ (3, 5, 7, 9, 10, 11, 12, 15) and address jumper configurable
- Size: 5.0"L x 2.7"W
- 2 DB9 male connectors

System requirements: 486/586 and higher compatibles; Windows® 95/98/NT/2000

Includes: Manual and drivers on CD-ROM

Part No.	Description	Weight	1	10
171555EA	Dual serial	0.5 lbs.	\$24.95	\$21.85

Serial Port Complete

Lakeview Research

RS-232 and RS-485 are the most versatile, inexpensive interfaces for linking, but the hardware and programming are often misunderstood. This book provides you with everything you need to design, program, install and troubleshoot the links you set up. (306 pages, 1998)

Includes: 3.5" diskette

Part No.	Description	Price
154771EA	Serial Port Complete	\$39.95

DIMM and SIMM Memory

Part Number	Mfr. Cross Ref. No.	Pins	Description	1	10
148398EA		168	4M x 64 10ns Syn. DRAM DIMM (32MB)	\$16.95	\$15.95
148401EA		168	8M x 64 10ns Syn. DRAM DIMM (64MB)	35.95	32.29
148419EA		168	16M x 64 10ns Syn. DRAM DIMM (128MB)	69.95	62.99
130729EA	JEED07208	72	2M x 32 60ns SIMM EDO module (8MB)	9.95	7.95
130711EA	JEED07216	72	4M x 32 60ns SIMM EDO module (16MB)	11.35	10.35
148443EA	JEED07232	72	8M x 32 60ns SIMM EDO module (32MB)	43.95	39.59
148451EA	JEED07264	72	16M x 32 60ns SIMM EDO module (64MB)	29.95	28.45
75184EA	P364000-XX-6	72	4M x 36 60ns SIMM module (16MB)	22.15	20.15
75168EA	P364000-XX-7	72	4M x 36 70ns SIMM module (16MB)	38.99	36.99
148460EA	8MBX36-60	72	8M x 36 60ns SIMM module (32MB)	39.95	36.99

Pentium® II 233-266MHz**Intel 82440FX PCI Chipset**

- Award BIOS
- Windows® plug and play compatible
- Slot 1 type for Pentium® II 233-266MHz processors
- Six 72-pin SIMM sockets upgradeable to 384MB (EDO/Fast Page)
- 5 PCI and 3 ISA with one shared PCI/ISA socket
- On-board: 2 IDE ports that support 4 IDE devices; floppy drive port
- Two high speed 16C550 UART compatible buffer fast serial ports; and multi-mode parallel port that support SPP/EPP/ECP mode
- PS/2 female keyboard and mouse; 2 USB-A female ports; 2 DB9 female serial ports; IrDA headers
- 20-pin ATX form factor power connector
- Size: 12.0"L x 9.6"W • Weight: 2.6 lbs.

Includes: Manual, 3.5" drivers, cable, and retention mechanism for Pentium® II processors

Part No.	Description	Size	Weight	1	10
188074EA	Pentium® II motherboard	12.0"L x 9.6"W	2.6 lbs.	Was \$14.49 \$10.45	\$9.45

Celeron 400-700MHz and Pentium III 533-1000MHz**Intel 815E (Solano 2) Chipset**

- Phoenix BIOS
- 6 PCI slots and 1 AGP slot
- Windows Plug and Play compatible
- Slot 370 type for Celeron 400MHz-700MHz or Pentium® III 533MHz to 1000MHz
- Supports three 168-pin SDRAM PC100/ PC133 memory upgradeable to 512MB
- On-board I/O controller: 2 EIDE ports that support 4 EIDE devices, floppy drive port that supports LS-120 drive; IRDA port
- PS/2 female keyboard and mouse; 2 USB ports; DB9 male and female serial ports; DB25 female parallel port; DB15 female game port; 3 audio I/O jacks (modular connectors)
- 20-pin ATX form factor • Size: 12.0"L x 8.8"W • Weight: 3 lbs.

Includes: Manual and drivers on CD-ROM

Part No.	Mfr. Cross Ref. No.	Description	1	10
218835EA	SY-71SA	Celeron and Pentium® III motherboard	\$64.95	\$59.95

ISA 16-Bit Super VGA Card**512KB on Board**

- 1024 x 768 resolution in non-interlaced and interlaced modes
- Supports 16 colors; requires 1MB video RAM
- Supports VESA standard graphics & text modes
- Output HDB15 female (analog)
- Emulates VGA, EGA, CGA, MDA & Hercules modes

Requirements: IBM AT and higher compatibles

Includes: software and manual

Part No.	Description	1	10
104660EA	VGA card	\$49.95	\$44.95

SMK RF Modulator

- Output frequency: NTSC Ch. 3/4, switch selectable
- 12VDC RF modulator
- Operating voltage: 12V@ 50mA max.
- Video modulation: 1.0V p-p
- Audio FM deviation: 1.4V p-p
- RF output impedance: 75Ω (F-type connector)
- PC connections: solder tab connectors
- Size: 1.7"L x 1.7"W x 0.7"H • MFG. #: WMN2144-01

Part No.	Description	1	10
141639EA	RF modulator	\$4.95	\$4.29

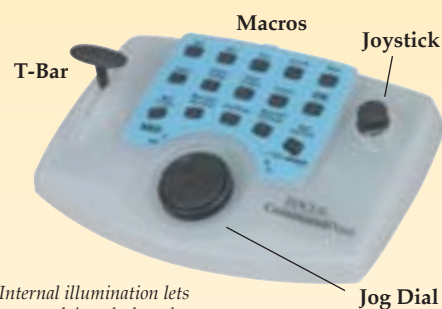
Jameco's Low-Price Guarantee**USB Color Video Camera**

- Minimum illumination: less than 15 lux
- Sensor: 1/3" CMOS
- Plug & Play compatible
- Integrated lens: F2.0
- 640 (H) x 480 (V) pixels
- Resolution and output performance: VGA (640 x 480) up to 10 frames per sec.

System requirements: Pentium® 166MHz, 16MB of RAM, Windows® 98, USB port

Includes: CD-ROM drivers

Part No.	Description	Size	Wt.(lbs.)	1	10
204134EA	USB color camera	3.6"L x 2.1"W x 2.0"H	0.4	Was \$29.95 \$18.59	\$16.89



Internal illumination lets you work in a darkened room.

Faster, easier video editing at a fantastic price!

Create better videos faster, and have more fun doing it. The ProVideo Editing Controller system combines the most frequently used multimedia controls into a single customizable console that makes your favorite applications work together as one. Assign complicated multi-key sequences to any of the 15 keys, joystick, fader bar or jog wheel, and execute them with one touch. Switch between applications automatically as you work. Comes with VideoWave 4.0 editing software which includes templates for all popular applications, and you can save your own templates for virtually any application. Requires Windows 98+ or Mac 8.6+. Includes USB cable. One-year manufacturer's warranty.



Part No.	Description	Price
220329EA	Pro-video editing controller	\$29.95

15" SVGA Color Monitor†

- 0.28mm dot pitch
- Res.: 1280 x 1024 @ 60Hz
- Digital panel control
- Input voltage: 100-240VAC, 50/60Hz (auto switching)
- Power, contrast, brightness, horizontal and vertical size position, recall and trapezoid front control
- HDB15 male connector
- UL/CSA/TUV approved
- Size: 14.5"W x 16"D x 14.6"H • Weight: 45 lbs.

Requirements: IBM PC/XT or higher compatibles

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
153306EA	13.5" monitor viewable †	\$99.95	\$89.95



† Refurbished

14" SVGA Color Monitor†

- 13" diagonal view
- 0.28mm dot pitch
- HDB15 male connector
- Power, contrast, brightness, horizontal and vertical position, recall and trapezoid knob adjustments
- Resolution: 1152 x 864 @ 60Hz
- Input voltage: 100-240VAC @ 50-60Hz
- Size: 14.2"W x 14.6"D x 13.5"H • Weight: 25 lbs.

Requirements: IBM PC/XT or higher compatible

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
174537EA	13" monitor viewable †	\$69.99	\$64.99



† Refurbished

2-Port USB-A PCI Card

- Plug & Play compatible
- Uses VIA VT83C572 controller chip
- USB specification V.1.1 compatible
- USB legacy BIOS supports
- Operates in USB-aware operating system (Win® 95, 98)

Includes: Manual

Part No.	Description	1	10	25
155299EA	PCI USB	\$24.99	\$22.49	\$20.25

2-Port USB-A PCMCIA Card

- PCMCIA type-II card
- New 32-bit CardBus
- Size: 4.6"L x 2.1"W
- USB 1.1 OHCI USB standard; 12Mbps max. speed

System requirements: Windows® 98, ME, 2000 and Mac OS 8.6 or later

Includes: Manual

Part No.	Description	1	10
189499EA	USB 1.0 CARD BUS card	Was \$69.95 \$48.69	\$44.29

USB-A Female Cables & Bracket

- Supports data transfer rates of 12Mbps
- Connection of two devices
- Dual USB-A female connectors • 8" long

Part No.	Description	1	10	25
144813EA	USB-A panel mount	\$6.95	\$6.25	\$5.59

USB to Serial Adapter with Prolific Chipset

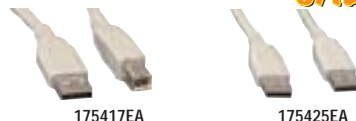
This USB serial adapter provides an external Plug-and-Play RS-232 port for computers, notebooks, and handheld computing devices. Provides high-quality serial connections at transfer rates of more than 500kbps for cell phones, PDAs, digital cameras, modems and ISDN terminal adapters.

- Supports RS-232 serial interface, automatic handshake mode, remote wake-up and power management
- Provides a 96-byte buffer for each upstream and downstream data transfer
- Has a 7" cable with DB25 male connector and a 14" cable with USB-A connector

System requirements: Windows®98/2000, USB host controlled installed in the system

Part No.	Description	1	5
213006EA	USB-A to serial converter	\$29.95	\$27.95

USB Cables



USB-A Male to USB-B Male

Part No.	Description	1	10
175417EA	3' cable	\$4.49	\$3.99
169359EA	6' cable	4.95	4.49
169367EA	10' cable	5.95	5.25

USB-A Male to USB-A Male

Part No.	Description	1	10
175425EA	3' cable	Was \$3.95 \$2.95	\$2.65
175441EA	10' cable	5.95	4.49

Log onto www.jameco.com for much more.

Add USB versatility to your computer with one-step, pocket-sized ease!

Instantly add more USB 1.1 ports to your desktop or notebook computer with this compact, compatible hub. Perfect for your laptop case, it tucks into any available space to provide plug-and-play versatility, on your desk or on the road. Whether you're a PC power user or a Mac fanatic, this hub will seamlessly expand your hardware horizons.

Part No.	Description	1	5
233365EA	4-Port mini hub	\$9.95	\$8.95

External 7-Port USB Hub

SALE

- 7 USB-A female output ports
- USB-B female root port
- Allows you to attach 127 USB devices to your PC
- LED indicators for port, status, and power
- Plug & Play compatible
- Size: 7.9"L x 2.8"W x 1.1"H

Includes: 6VDC power adapter and USB-A male to USB-B female cable

Part No.	Description	Wt. (lbs.)	1	10
191450EA	7-Port USB hub	2.6	\$35.95	\$26.95

USB-A to Joystick (DB15) Adapter

- Fully compatible with any 15-pin game port PC game controller
- Mode switch selector for maximum compatibility and flexibility
- USB Plug & Play
- Input connector: USB-A male
- Output connector: DB15-pin female connector
- Size: 3.2"L x 2.3"W x 1.3"H

System requirements: 586 or higher compatible; available USB-A port or Hub; Windows® 98 or higher

Includes: Manual and 3.5" drivers

Part No.	Description	1	10
189510EA	USB to game port adapter	\$35.95	\$31.95

RGB Video Cables

- 75Ω coaxial cable; 6' or 10'
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male

Part No.	Description	1	10
73648EA	6' cable (black)	\$19.95	\$16.99
118068EA	10' cable (black)	31.95	27.15

VGA Monitor Cables

- Connects video card to VGA monitor
- IBM PC/XT and higher compatibles
- HDDB15 male to male

Part No.	Description	1	10
66173EA	6' monitor cable	\$6.49	\$5.89
148523EA	10' monitor cable	6.95	6.25



7.5" extension cable included

Expand your single USB port into a stacked 3-port thumbhub.

- USB Revision 1.1 compliant
- Downstream port with OGD (overcurrent detection) and OCP (overcurrent protection)
- LED indicators uplink/down port communication, and OCP status
- Self-powered mode
- Supports full speed (12Mbps) and low speed (1.5Mbps) transfer rate
- Compatible: Windows®98/98SE/2000/ME/MAC OS8.5
- Size: 3.1"L x 0.8"W x 1.2"H
- 7.5" extension cord included

Part No.	Description	Price
208451EA	3-port USB thumbhub	\$18.95

USB Thumb Drives

What better way to keep your data safe than to keep it close to you? Thumb drives are compact and fit easily in your pocket or hang it around your neck. Portable and lightweight, no external power needed. No drivers necessary for Windows® ME and above. Windows® 98/98SE drivers available on www.jameco.com.

- 10 year data retention
- Size: 2.9"L x 0.7"W x 0.4"H

Part No.	Description	1	10
217752EA	16MB	Was \$29.95 \$25.95	\$23.95
217761EA	32MB	36.95	34.95
217779EA	64MB	Was \$54.95 51.95	48.95
217787EA	128MB	87.95	79.95
217795EA	512MB	289.95	279.95

USB Gender Adapter

USB-A to USB-B

- USB-A (female) to USB-B (male)

Part No.	Dimensions	1	10
169375EA	1.7"L x 0.6"W	\$6.95	\$6.35

VGA Monitor Extension Cables



- Extends VGA monitor cable; HDDB15 male-to-female
- IBM PC/XT and higher compatibles

134041EA:

- HDDB15 female with hex nuts and HDDB15 male with thumbscrews

66165EA/148531EA: • Thumbscrews on each end

Part No.	Description	1	10
134041EA	6' screws/hex nuts	\$4.49	\$3.95
66165EA	6' thumbscrews	6.59	5.95
148531EA	10' thumbscrews	7.49	6.79

DB9 Extension Cables



- All lines connected straight through
- 132345EA/196365EA:**
- DB9 female to DB9 female cable with thumbscrews
- 25700EA/148515EA/199638EA:**
- DB9 male to DB9 female cable with thumbscrews
- 181665EA:** • DB9 male to DB9 male cable

Part No.	Description	1	10
132345EA	6' F-F	\$4.95	\$4.49
199638EA	6' M-F (black)	4.49	3.95
25700EA	6' M-F	4.95	4.49
196365EA	10' F-F	6.95	6.25
148515EA	10' M-F	7.49	6.79
181665EA	10' M-M	6.95	6.25

DB25 Extension Cables

- All lines connected straight through
- Use to lengthen your standard serial cable or for switch box applications
- Thumbscrews to secure connectors
- Color: gray; except
- P/Ns **174001EA/175290EA:** black*



Part No.	Desc.	Weight (lbs.)	1	10
174001EA	3' M-M*	0.6	\$4.79	\$4.35
65787EA	6' M-M	0.5	6.49	5.89
39538EA	10' M-M	0.7	6.95	6.29
179979EA	15' M-M	1.2	6.95	6.29
67070EA	25' M-M	1.4	10.95	9.95
164291EA	3' M-F	0.4	4.29	3.89
175290EA	3' M-F*	0.4	2.95	2.69
163133EA	5' M-F	0.6	5.29	4.75
67256EA	6' M-F	0.6	6.45	5.79
39511EA	10' M-F	0.7	6.95	6.29
101995EA	25' M-F	1.4	11.95	10.79

IEEE 488 Cables

A variety of cable lengths are offered to ensure that the IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE 488 cables with stackable 24-pin GPIB connectors on both ends.



Part No.	Description	Wt. (lbs.)	1	10
73154EA	1 meter	0.8	\$36.49	\$32.79
115781EA	2 meter	1.2	37.95	34.19
115801EA	4 meter	2.0	38.95	36.19

Serial Null Modem Cables



- Molded type connectors
- Color: gray
- Weight: 0.4 lbs.
- Length: 10'
- 180697EA/181403EA Pin outs:**
- 1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7
- 180582EA Pin outs:**
- 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8;
- (Serial Printer Null Modem)

Part No.	Description	1	10
181403EA	6' DB9 F to DB9 F	\$5.69	\$5.09
180697EA	DB9 F to DB9 F	6.79	6.09
180582EA	DB25 M to DB9 F	6.69	6.05

DA15 Extension Cables

- Molded connectors
- Straight through
- Thumbscrews
- Color: gray
- (237032EA: black)

NEW



Part No.	Description	Length	1	10
181286EA	DA15 M-M	6'	\$5.49	\$4.95
181358EA	DA15 M-F	6'	5.49	4.95
237032EA	DA15 M-F	8'	6.99	6.29

AT-to-PS/2 and PS/2-to-AT Keyboard Adapter Cables

- Color: beige
- 28003EA:**
- Connects AT-type keyboards to PS/2
- 5-pin female DIN to 6-pin male mini DIN
- 85500EA:**
- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connectors



Part No.	Length	Weight (lbs.)	1	10
28003EA	7.3"	0.6	\$3.95	\$3.49
85500EA	11.3"	0.8	5.39	4.85

PS/2 Keyboard Extension Cables

- Color: beige
- PS/2 computers
- 6-pin mini DIN female-to-male



Part No.	Description	1	10
28548EA	PS/2 6' non-coiled	\$4.35	\$3.89
111053EA	PS/2 10' non-coiled	5.49	4.99

AT and PS/2 Keyboard Adapters

- 159089EA:**
- AT keyboard adapter
- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN
- 157930EA:**
- PS/2 keyboard adapter
- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)



SALE



Part No.	Length	Housing	1	10
159089EA	1.6"	Metal	\$2.95	\$2.65
157930EA	1.7"	Plastic/metal	2.95	2.65

Order Anytime 24x7x365
Call today! 1-800-831-4242 or
Log on to www.Jameco.com

Bidirectional Non-Buffered Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake XON/XOFF; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- Stop bits: 1 or 2
- Baud rate: 300 to 38400bps
- One-year warranty
- Weight: 0.8 lbs.

Includes: AC adapter (9VAC @ 200mA) and manual

Part No.	Description	Size	1	10
116935EA	Bidirectional converter	4.0"L x 2.5"W x 1.0"H	\$49.95	\$44.95

No more tangled cables on the road!

No matter how carefully you stow your laptop's cables, don't they always seem to end up in a tangles mess! And isn't that skinny RJ11 phone/modem wire the worst? Here's the answer. This RJ11 cable extends up to 8'. And when you pack up, give it a tug and it retracts into its lightweight, rugged case like a windowshade. It's completely tangleproof.



Part No.	Description	Price
233349EA	RJ11 retractable cable	\$4.95

Switch Box Adapter Cables

- 177261EA:**
- 2' gray 6-pin mini DIN M-M non-coiled cable for P/N 79177EA switch box, see website
- 114913EA:**
- 5' gray 5-pin DIN M-M coiled cable for P/N 114155 switch box, pg 76
- 174772EA:** • 6' black 6-pin mini DIN M-M
- 174908EA:** • 6' gray 6-pin mini DIN M-M
- 112627EA:** • 10' gray 6-pin mini DIN M-M non-coiled cable for P/N 79177EA switch box, see website

SALE



Part No.	Description	Length	1	10
177261EA	6-pin mini DIN	2' (gray)	\$2.95	\$2.55
114913EA	5-pin DIN	5' (gray)	4.95	4.49
174772EA	6-pin mini DIN	6' (blk)	4.95	4.25
174908EA	6-pin mini DIN	6' (gray)	5.75	5.15
112627EA	6-pin mini DIN	10' (beige)	7.95	7.25
205655EA	6-pin mini DIN	25' (beige)	8.95	7.95

Save Space! Slim-Line D-Sub Gender Changers



These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)

Part No.	Description	1	10
18497EA	D-sub 9-pin male	\$4.95	\$4.49
18489EA	D-sub 9-pin female	4.95	4.49
119319EA	D-sub 15-pin female HD	4.29	3.89
119301EA	D-sub 15-pin male HD	4.95	4.49
18446EA	D-sub 25-pin male	4.95	4.49
18420EA	D-sub 25-pin female	4.95	4.49



ATX 150-Watt

- Output:
 - +3.3V @ 6A
 - +5V @ 10A
 - +12V @ 6A
 - +5VSB @ 0.72A
 - 5V @ 0.2A
 - 12V @ 1A
- 20-pin ATX form factor
- Mating input conn.: suggest using P/N 38050EA power cord, pg 37 – not included • Built-in fan
- Input volt.: 115/230VAC @ 50-60Hz (auto switching) • Power on/off switch



Special
Purchase
LOW LOW PRICE

Part No.	Product No.	1	10	25
196189EA	MPW-6150F	\$34.95	\$31.49	\$27.95

AT 250-Watt

- Output:
 - +5V @ 20A
 - +12V @ 10A
 - 5V @ 0.5A
 - 12V @ 0.5A
- Fits popular mini-vertical and desktop cases
- Input voltage: 110-220VAC @ 50-67Hz (switchable)
- One-year warranty
- Size: 5.5"L x 5.9"W x 3.4"H
- Weight: 2.0 lbs.



Part No.	Prod. No.	1	10	25
174465EA	LC250C	\$54.95	\$49.46	\$44.51

14 More @ www.Jameco.com

Jameco is your
Power Source.
See our website
for additional PC
Power Supplies.



Part Number	Mfr.	Product Number	Watts (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Output Connector (Mating Connector)	Certification	Size (L" x W" x H")	Weight (lbs.)	Pricing	
											1	10
201435EA	Xtreme Power	EPA400	400	+3.3/33, +5/45, +12/15, +5VSB/1, -5/1, -12/1	115/230 @ 47-63 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV/CE	5.6 x 5.9 x 3.4	5.0	\$109.99	\$89.95
196189EA	Emaos	MPW-6150F*	150	+3.3/6, +5/10, +12/6, +5VSB/0.72, -5/0.2, -12/1	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050EA, pg 37)	ATX	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.5	34.95	31.49
196111EA	SPI	FSP23560GT	235	+3.3/14, +5/22, +12/8, +5VSB/0.8, -5/0.3, -12/0.8	100/240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050EA, pg 37)	ATX	UL/CUL/TUV/CE	5.6 x 5.9 x 3.4	3.2	31.95	28.76
152514EA	High Power	JE8250	250	+3.3/16, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	5.5 x 5.9 x 3.4	3.3	49.95	44.99
174465EA	Logic Concept	LC250C*	250	+5/20, +12/10, -5/0.5, -12/0.5	110/220 @ 50-67 switchable	3-prong AC receptacle with 6' power cord	AT	UL/CSA/TUV/CE	5.5 x 5.9 x 3.4	2.0	54.95	49.46
152194EA	American Media	JE2031	250	+3.3/14, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	6.0 x 5.5 x 3.4	3.5	50.95 49.95	44.99
155539EA	American Media	JE2033	300	+3.3/14, +5/30, +12/8, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	5.9 x 5.5 x 3.4	3.7	69.95	62.95

* See photo above

Computer Switches and Sharing Devices

SVGA Monitor Splitters

Duplicate a video signal from one source to monitors up to 210 feet away.

- Suitable for SVGA, VGA & multisync monitors

176866EA: 2-channel

- 1 HDDB15 male connector from PC to box: 2 HDDB15 female connectors from box to monitors
- Size: 6.6"L x 3.3"W x 1.1"H
- Weight: 1.4 lbs.

133866EA: 4-channel

- Slide switch for video signal gain control
- Daisy chainable • One-year warranty
- Size: 8.8"L x 6.0"W x 1.9"H • Weight: 3.6 lbs.

Includes: Power adapter and manual

Part No.	Description	1	10
176866EA	2-channel monitor splitter	\$49.95	\$44.95
133866EA	4-channel monitor splitter	68.95	61.95

Monitor/Mouse/Keyboard Cables

- 6' or 32'
- HDDB15 male/female for monitor, 5-pin DIN male/female for keyboard, and DB9 male/female for mouse



Part No.	Description	Wt. (lbs.)	1	10
141284EA	6' cable	1.6	\$22.95	\$19.95
141276EA	32' cable	4.8	39.95	35.95

K/V/M Switch Boxes for up to 4 Computers

SALE

- Selects any computer by hot keys or switch
- Serial and PS/2 mouse & keyboard emulation for automatic PC boot up
- Three stage cascable for accessing more computers
- Supports SVGA, VGA and Multisync monitors
- Keyboard LED status recorded and restored while switching among computers
- Auto scan for monitoring PC periodically
- One year warranty

- Size 149382EA: 9.0"L x 6.0"W x 2.0"H
- 149391EA: 10.0"L x 7.0"W x 3.0"H

Includes: Manual & power supply (9VDC @ 600mA)

Part No.	Description	Wt. (lbs.)	1	10
149382EA	2 computers	4.0	\$122.59	\$111.45
149391EA	4 computers	7.1	229.95	209.95

Find it @ www.Jameco.com

See our website for
more Switch Boxes
and Converters.



One simple tool and you
have two computers at
your command.

This two port switch box can access TWO computers from one keyboard, mouse, and monitor. No interface card or software to configure. Operation is as simple as pushing a button on the front panel and entering hot-key commands.

- Supports Microsoft® IntelliMouse, Logitech Net Mouse, etc.
- Supports operating systems DOS, Win 3.x, Win95/98/98SE/2000/ME, WinNT, Network, Unix, Linux
- High VGA resolution
- Keyboard and mouse pluggable at anytime
- Hot-key function allows easy computer access
- Audible sound for switching port confirmation
- Port and console connectors: female PS/2 keyboard and mouse, female HDDB15 for video
- Size: 4.3"L x 3.0"W x 1.2"H

Part No.	Description	1	10
216063EA	2-Port K/V/M switch box ...	\$69.95	\$62.95
204062EA	PS/2 cable	16.95	15.29

**Keyboard/Monitor-to-PC
Switch Box****HDDB15/5-Pin DIN Female**

- 2-way switch box
- For 2 PCs connected to 1 keyboard and 1 monitor – diodes maintain keyboard in powered state
- Size: 6.0"L x 4.0"W x 2.3"H
- Weight: 1.3 lbs.



Part No.	Description	1	10
114155EA	2 computers	\$14.95	\$13.49

Serial Port-to-PC Switch Boxes**DB9 Female**

- Connects 2 or 4 serial ports to a PC
- 79126EA: 2-serial port switch box
- Size: 6.0"L x 4.8"W x 2.5"H
- Weight: 1.2 lbs.



79126EA

- 183417EA: 4-serial port switch box
- Size: 6.1"L x 4.0"W x 2.2"H
- Weight: 1.3 lbs.



183417EA

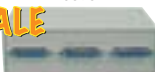
Part No.	Description	1	10
79126EA	2-serial port switch box	\$9.95	\$8.95
183417EA	4-serial port switch box	19.95	17.95

**Parallel Printer-to-PC
Switch Boxes****DB25 Female**

- Connects 2 or 4 PCs to one printer
- 20095EA: 2-PC switch box
- Size: 6.0"L x 5.8"W x 2.3"H
- Weight: 1.3 lbs.
- 155512EA: 2-PC switch box
- Size: 7.2"L x 4.9"W x 2.5"H
- Weight: 2.3 lbs.



20095EA



155512EA

- Includes: DB25 M-M cable
- 20124EA: 4-PC switch box
- Size: 6.0"L x 4.0"W x 2.4"H
- Weight: 1.5 lbs.



20124EA

Part No.	Description	1	10
20095EA	2 PC switch box	\$8.95	\$7.95
155512EA	2 PC switch box	6.49	5.54
20124EA	4 PC switch box	14.95	13.49

4 & 2-Port Auto Printer Switches

- Connects up to 4 PCs to 1 printer or 4 printers to 1 PC
- Non-powered
- Compact size
- Auto form-feed selectable
- Transparent to user
- 177421EA: bidirectional; 3.5" software included; 5 DB25 female connectors
- 177412EA: 5 DB25 female connectors
- 177404EA: 3 DB25 female connectors



177421EA



177404EA

Part No.	Description	1	10
177421EA	1 to 4 or 4 to 1	\$7.75	\$6.96
177412EA	4 to 1 printer	Was \$6.49 3.49	3.15
177404EA	2 to 1 printer	Was \$2.59 2.15	1.95

**2-Way & 4-Way Monitor/Keyboard/
Mouse-to-PC Switch Boxes****HDDB15/5-Pin DIN/DB9M**

- Allows 2 or 4 users to share one PC system
- Internal diodes maintain keyboard in powered state when switching between systems
- Each user may need 2 or 4 sets of the following cables: P/N 66173EA, DB15HD M-M for monitor; P/N 114913EA, 5-pin DIN M-M for keyboard; P/N 132345EA, DB9 F-F for serial mouse (cables, pg 56)
- Size: 7.5"L x 5.3"W x 2.8"H



132249EA



134017EA

Part No.	Description	Wt. (lbs.)	1	10
132249EA	2-user switch box	1.6	\$17.95	\$15.95
134017EA	4-user switch box	2.3	21.95	19.95

19" Rack Mount Enclosures

Perfect for equipment setup in home, studio or laboratory.

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Top, bottom, sides durable 0.035" steel
- Front panel: 0.12" Thick • Black front panel
- All enclosures have handles except P/N 132812EA



Includes: Mounting screws

Part Number	Dimensions (In.)			Weight (lbs.)	Pricing	
	H1	H2	D		1	10
132812EA	1.73	1.25	9.75	6.2	\$39.95	\$35.99
132821EA	3.46	3.0	9.75	7.9	47.95	43.49
132839EA	3.46	2.88	11.75	9.1	53.95	48.59
132847EA	5.22	4.75	11.75	10.6	63.95	55.99
132855EA	5.22	4.75	13.50	11.8	73.95	66.95

**Cabinet Mounting Plate
for 19" Cabinet**

- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H • Color: beige



Part No.	Description	1	10
149500EA	Cabinet mount plate	\$39.95	\$35.95

Removable HD Rack and Insert

- For quick drive swapping
- Removable storage for 3.5" IDE drive
- Power LEDs
- Keylock for security
- 196040EA: Size: 5.8"W x 8.5"D x 1.5"H
- Weight: 1.2 lbs.
- 196031EA: Size: 4.1"W x 7.5"D x 1.6"H
- Weight: 0.8 lbs.



196040EA

Includes: Inner cable with IDE connector

Part No.	Description	1	10
196040EA	IDE rack w/ insert	\$27.95	\$20.95
196031EA	Insert for 196040EA	19.95	17.99

Don't worry about back orders.
Over 99% of our products are in stock!

19" Cable Management Racks

Make your cable looms neat and organized with our 2 unit cable management rack. Simply slip in the cable between spaces and route them to their destinations.



208776EA



209031EA

Part No.	Description	1	10
208776EA	Ducting type holder	Was \$21.95 \$19.95	\$17.99
209031EA	C clamp type holder	Was \$21.95 17.89	16.89

Relay Rack & Rack Panels

Rack:

- Black powder coat finish
- 10-32 threaded holes
- Used with 19" wide panels
- 16 gauge CRS base
- Size: 84"H
- 1/8" aluminum side rails
- Size (at base): 19.8"W x 15.3"D x 84"H
- 19" Wide Panel:
- 10-gauge black aluminum
- Size: 1.75"H

133751EA

SALE

133276EA

Part No.	Description	Wt. (lbs.)	1	10
133751EA	Relay rack	21.8	Was \$179.95 \$159.95	\$144.95
133276EA	Rack panel	0.4	9.45	8.49

**IDE Removable 5.25" Rack Kit
for 3.5" Hard Drive w/ Fan**

- Supports DMA 66 hard drive
- Removable storage for 3.5" hard drives
- LED for power and hard drive activity
- Retaining lock mechanism
- 12VDC @ 50mA fan
- CFM rating: 5.6
- Size: 5.9"W x 8.7"D x 1.6"H
- Weight: 1.3 lbs.



Includes: Mounting hardware

Part No.	Description	1	10
170608EA	Rack kit (IDE)	\$29.95	\$26.95

**Aluminum IDE Removable Hard
Drive Rack with Fan**

Easily remove a hard drive from your PC or workstation, safeguard your data and an ideal way to back-up data. Because our Rack Kit is hot removable, you can remove your hard drive without shutting down your computer operations. Aluminum case transfers heat away from the drive for longer and more reliable drive life.



- 5.25" rack kit for 3.5" hard drives
- Drive activity LED
- Aluminum rack
- Built-in fan
- Keylock for security

Part No.	Description	1	10
211035EA	Rack kit (IDE)	\$24.95	\$22.45

Discover More @ www.Jameco.com

Power Strip Outlet Saver

With our high quality power strip outlet saver, you can use all the outlets on your surge suppressors, UPS, and outlet strips. Just plug a bulky power adapter into this cable and free up your other outlets.



Part No.	Description	Length	Cord Type	1	10
199777EA	AC Power cord (black)	1'	SVT	\$1.69	\$1.55
208338EA	AC Power cord (beige)	1'	SVT	1.69	1.45

Power Strip Saver Double Outlet

Get full use of your power strips. Plug those bulky adapters into these cables and plug the cables into the power strip. Need the extra adapter to be plugged into the power strip? Use the "Y" power strip saver to add an extra adapter.

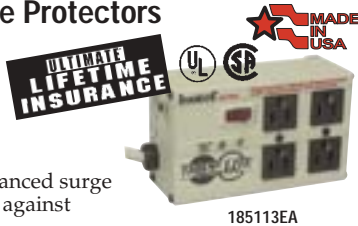


Part No.	Description	1	10
208346EA	Power strip saver	\$2.89	\$2.75

TRIPP-LITE isobar® Surge Protectors



139686EA



185113EA

The world's best known, most advanced surge protectors provide total protection against surges, spikes and line noise.

- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- "Cascade Circuitry" allows you to chose increased noise protection level for your most sensitive equipment • UL 1449 and 1283 listed • Lifetime warranty
- IsoTel model has dual RJ11 jacks for complete modem/fax surge protection
- 4-outlet protectors: 6' cord; 8 and 12-outlet protectors: 12' cord

Isobar Premium 19" Rack Mount Surge Protector

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
139686EA	IBAR12RM	750	12 outlet, 2 isolated filters	4.7	\$119.95	\$107.99

Isobar Ultra Premium Surge Protector

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
19001EA	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5	\$69.95	\$62.95

Isotel AC/Phone Line Surge Protector

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
185113EA	ISOTEL 4U	2700	4 outlet, 2 isolated filters	2.7	\$39.95	\$29.99

POWERWARE 300-VA UPS System

With Dual Outlet

- Protects against blackouts and brownouts
- Battery charging: less than 6 hours to 90% usable capacity
- Battery backup time: 5-10 mins. @ full load; 10-20 mins. with partial load
- Input voltage: 120VAC @ 60Hz
- Output voltage: 120VAC
- Output current: 2.5 amps (full load) • Size: 3.4"W x 5.8"D x 13.2"H



Part No.	Product No.	Description	Weight	1	10
179961EA	PRB300A	300-VA UPS system	12.4 lbs.	\$59.95	\$53.95

Keep dangerous spikes and surges out of site, and out of mind!

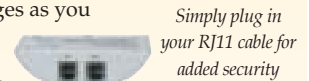


Protect your valuable equipment as you eliminate clutter with this easy-to-install surge protector. This unit is a direct replacement for your existing AC wall plate; no wiring is required. Your cable/satellite/ antenna connection and two outlets are fully protected against damage from harmful electrical spikes and surges. Two safe-operation lights ensure correct installation and active protection.

Part No.	Description	Price
235002EA	RCA universal surge protector	\$12.95

Guard against power spikes and surges as you protect your modem/fax/phone system from harm. No complicated wiring is required; this easy-to-install surge protector is an effortless, plug-in replacement for your existing AC wall plate. Two safe-operation lights ensure correct installation and active protection of your valuable equipment.

Part No.	Description	Price
234991EA	RCA universal surge protector for phone/fax	\$12.95



6-Outlet Surge Protector

- Standard 6-outlet surge suppressor
- Heavy-duty power cord (14AWG x 3)
- RESET/OFF switch with built-in 15A circuit breaker
- Clamping voltage: 400V
- Maximum surge dissipation: 900 joules
- Maximum surge voltage: 6500V • Maximum spike current: 4500A

Part No.	Description	Weight	1	10
216485EA	Surge suppressor	0.9 lbs.	\$6.95	\$6.25



CD-ROM, Floppy Drives and Accessories

1.44MB 3.5" Internal Floppy Disk Drives



- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Determines if disk is high or low density
- Size: 4.0"W x 5.9"D x 1.0"H (actual drive size)

Part No.	Mfr. Cross Ref. No.	Mfr.	Color	1	10
118922EA	MPF520-1	Sony	Beige	\$29.95	\$26.95
115490EA	FD235	TEAC	Beige	21.95	19.95

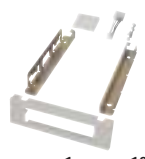
3.5" Drive Mounting Kit

- For mounting a 3.5" floppy drive into a 5.25" slot

SALE

Includes: Beige faceplate

Part No.	Description	1	10
32088EA	Drive mounting kit	\$5.89	\$5.29



Internal IDE CD-ROM Drives

SALE

- 5.25" half-height design
- One-year warranty
- Manufacturer varies

Part No.	Speed	Buffer	kB/sec.	Wt. (lbs.)	1	10
149307EA	24x	256kB	3600	2.6	\$29.95	\$25.95
189051EA	32x	128kB	4800	2.6	29.95	25.95
189069EA	40x	128kB	6000	2.6	34.95	29.95
189077EA	48x	128kB	7200	2.6	35.95	30.95
189448EA	56x	128kB	8400	2.3	39.95	29.95



⌘ Pull

See our new portable CD-RW drive on page 2!



IDE, EIDE & SCSI Hard Drives**PC/XT/AT and Compatibles**

- IDE drives over 528MB require EIDE controller or higher
- Manufacturers may vary and capacity may exceed specification; we carry Seagate, Western Digital, IBM and others. • All are 1" in height

Part No.	Capacity	Description	Conn. Pins	Wt. (lbs.)	Average Access Time (ms)	Warranty	1	10
200803EA	17.2GB	3.5" IDE	40	1.1	9.5	3 mos.	\$79.95	\$71.95
115764EA	425MB	3.5" IDE	40	1.7	12.5	3 mos.	59.95	53.95
118949EA	850MB	3.5" IDE	40	1.7	14	1 year	59.95	53.95
124978EA	1.27GB	3.5" IDE	40	1.1	14	1 year	59.95	53.95
146325EA	1.7GB	3.5" IDE (Fast ATA-2)	40	1.1	12	1 year	39.95	35.95
146333EA	2.5GB	3.5" EIDE (Fast ATA-2)	40	1.0	11	1 year	69.95	62.95
151036EA	3.2GB	3.5" EIDE (Ultra DMA33)	40	1.1	11	1 year	73.99	67.25
151044EA	4.3GB	3.5" EIDE (Ultra DMA33)	40	1.1	11.5	1 year	49.95	45.95
151052EA	6.4GB	3.5" EIDE (Ultra DMA33)	40	1.1	9.5	1 year	49.95	45.95
162261EA	8.45GB	3.5" EIDE (Ultra DMA33)	40	1.2	9.5	1 year	99.95	89.95
189085EA	1.0GB	SCSI	50	1.3	9.6	3 mos.	29.05	25.95

Part No.	Mfr. Cross Ref. No.	Description	Wt. (lbs.)	1	10
180857EA	HDB35	3.5" hard drive mount kit (short)	0.2	\$4.95	\$3.75
117217EA	HDMK	3.5" kit (w/ black & gray faceplates)	0.6	7.95	6.79

* Pull

External SCSI Cables for Complete Connectivity

- For PC/XT/AT and compatibles
- All lines connected

Part No.	Description	1	10
73162EA	Male 50-pin Centronics to male 50-pin Centronics SCSI-I to SCSI-I (6') [†]	Was \$6.95	\$2.35
118084EA	Male 50-pin Centronics to male HPDB50 cable SCSI-I to SCSI-II (6')	14.95	13.49
137568EA	Male HPDB68-pin to male HPDB50-pin SCSI-III to SCSI-II (3')	7.19	6.95

[†] Also Macintosh* compatibles, see above for SCSI type connector guide**Disk Drive Cables**

Part No.	Description	Cable Length	1	10
185084EA	34-pin header socket ribbon cable for floppy drive	25"	\$1.19	\$1.05
32918EA	34-pin header socket ribbon cable for floppy to card	23"	3.49	2.99
72805EA	Two 40-pin header socket ribbon cable for IDE drive	18"	3.69	3.14
179987EA	One 40-pin and one 34-pin cable kit	20"/25"	.55	.47
175492EA	40-pin header socket ribbon cable for ultra DMA66/100	17"	6.95	6.25

CPU Heat Sinks with Fan

- Excellent for avoiding CPU overheating during extended system on-time
- High efficiency cooling fans
- Easy installation – just snap it in

See page 17 for CPU's

Part No.	Description	Size (H" x W" x D")	1	10
196242EA	For socket 7 (ATX)	2.26 x 2.12 x 1.07	\$9.95	\$8.95
181278EA	For socket 7 (ATX)	2.12 x 2.05 x 1.67	8.49	7.65
118092EA	For 586 CPU w/ snap	2.18 x 2.30 x 1.00	3.95	3.19

Back Panel PC Cooling Fan

- Type: sleeve axial fan
- Back panel mountable
- Airflow: 43 CFM
- Noise ratio: 26dBA
- Power: 1.7W
- Operating volt.: 12VDC @ 140mA
- 10.5" wire w/ 4-pin Molex power conn.
- Size: 4.3"L x 3.5"H x 1.1"Thick
- One-year warranty

Part No.	Description	1	10
152240EA	PC cooler fan	\$19.95	\$17.95

Thermoelectric Cooler Chips

- Cools down to -30°C (dependent on external temperature)
- T max. = 60°C
- 20 AWG wire leads, 4" long
- Heat or cool by changing direction of current
- Operating voltage: 15.4VDC nominal

Part Number	Mfr. Cross Ref. No.	Couples*	Watts	Voltage (max.) DC	Current (max.) A	Size (L" x W" x T")	Pricing	
172030EA	TEC30	71	19.7	8.4	4	1.2 x 1.2 x 0.2	1	10
172048EA	TEC40	127	35.6	15.4	4	1.6 x 1.6 x 0.2	25.95	22.95
172056EA	TEC50	127	79.1	15.4	8	2.0 x 2.0 x 0.2	33.75	29.35

* Couples: # of P&N type semiconductor pairs connected electrically in series

Computer Card Brackets

Fig.	1	2	3	4	5
1	2	3	4	5	

• For securing cards into bus slots
• Fits standard PC/XT/AT cases • Length: 4.75"
• See pg 50 for DB connectors

Part No.	Description	Fig.	1	10
11754EA	Blank back panel	1	\$1.89	\$1.79
101717EA	For DB9 connector	2	1.79	1.55
101733EA	For DB25 connector	3	1.79	1.59
101741EA	For DC37 connector	4	1.79	1.59
101830EA	For DB9/DB25 conn.	5	\$1.99	1.79

CD Cases

Part No.	Description	1	10
208485EA	Slim black 10 pk.	\$2.99	\$3.59
208493EA	Slim asst. color 10 pk.	4.95	4.45

CD-ROM Audio Cables

Part No.	Length	1	10
127546EA	25"	\$2.95	\$2.65
168612EA	18"	4.95	3.99

ATX Power Supply 15" Extension Cable

- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply code
- 15"L x 18 AWG (wires)

Part No.	Mfr. Cross Ref. No.	1	10
170237EA	ATX-400-RV	\$6.49	\$5.85

5.25" Disk Drive Power Splitter

Part No.	Drive	AWG	Length	1	10
28353EA	5.25"	18	5'	\$2.95	\$2.69

SCSI TYPE / CONNECTOR REFERENCE TABLE						
SCSI type	50-pin Centronics DB25	50-pin Centronics DB25	Half pitch DB25	Half pitch DB25	VHD80 Centronics	VHD80 Centronics
SCSI-I	✓	✓	✓			
SCSI-II			✓	✓		
SCSI-II wide					✓	
SCSI-III						✓
RAID: SCA, SCA-2						✓



*Keyboard
lights up with
a cool blue
luminescence*

Work or play at your PC under any lighting conditions!

Your friends will glow with envy when they see this unique, trendy keyboard. Lit with a cool blue luminescence, all keys on this PS/2 peripheral are instantly identifiable, even in total darkness. Why break the mood of your favorite game with harsh overhead lighting when you can keystroke with perfect, futuristic, illuminated accuracy?

• Size: 15.3"L x 5.9"W x 1.3"H

• Weight: 1.7 lbs.

Part No.	Description	Price
235563EA	Illuminated PS2 keyboard	\$79.95

QTRONIX. Win 95 104-Key Keyboard with Jumbo Trackball



- PC/AT and PS/2 compatible w/ DOS 3.0 or higher
- "N-Key" roll-over for quick typists
- Tactile click sound and feel
- Size: 19.0"L x 6.8"W x 1.4"H
- Weight: 3.7 lbs.
- One-year warranty

Includes: Software and AT cable adapter

Part No.	Description	1	10
128717EA	Scorpius 35PM/NET	\$99.95	\$90.95

COMPAQ 101-Key Keyboard



SALE

- For PS/2 systems
- Tactile touch
- LED indicators for Num, Caps, and Scroll lock
- 12 function keys with separate cursor and numeric keys
- Recommend using adapter P/N 85500EA or P/N 159089EA, pg 74
- Size: 18.3"L x 6.5"W x 1.3"H
- Weight: 3.6 lbs.

Part No.	Description	1	10
191530EA	101-Key keyboard	\$19.95	\$16.99

QTRONIX. 22-Key Serial Keypad

- Tactile click-sound and touch
- Auto repeat function
- 9600 bps, data bits: 8, stop bits: 1, start bit: none, no parity
- Serial DB9 connector
- 2-key rollover
- Color: beige
- One-year warranty
- Size: 6.2"L x 4.2"W x 1.3"H
- Weight: 0.8 lbs.



System requirements: IBM PC/XT or higher compatibles; and MS DOS 3.X

Includes: 3.5" driver diskette and manual

Part No.	Description	1	10
129357EA	Scorpius 22RW	\$39.95	\$35.95

QTRONIX. 17-Key PS/2 Keypad

A compact keypad designed for use with IBM compatible laptops and desktop PC.

- Auto-repeat function
- Tactile click-sound and touch
- Switch life of 20 million cycles
- For IBM PS/2 and compatibles
- Two key roll over
- Installs into 6-pin mini DIN keyboard connector (no software required)
- One-year warranty
- Size: 5.6"L x 3.4"W x 0.9"D



Part No.	Description	1	10
151811EA	Scorpius 20PB	\$34.95	\$31.49

QTRONIX. USB or PS/2 3-Button Optical Wheel Mouse

- Ergonomic style 3-button optical wheel mouse
- High tech optical sensor for all surface types
- Size: 3.9"L x 2.3"W x 1.5"H



System requirements:

IBM PC or compatible, Windows® 98/2000/ME/XP, available PS/2 or USB port

Part No.	Description	1	10
199591EA	Lynx-LVII	\$29.95	\$26.95

3-Button Serial Mouse

- Microsoft® mouse compatible
- IBM PC/XT and higher compatibles
- Size: 4.3"L x 2.3"W x 1.2"H



Part No.	Description	1	10
104441EA	Serial mouse	\$4.95	\$4.49

QTRONIX. Trackball with Menu Software

- Detachable wrist strap
- Variable resolution (20-6400 dpi)
- Ergonomic design
- One million cycle life tactile switches
- 3.5" disk
- One-year warranty
- Size: 5.5"L x 4.6"W x 2.0"H



System requirements:

IBM PC/XT and higher compatible systems; MS DOS 3.3 or later, Windows® 95

Part No.	Description	1	10
128995EA	LIBRA 90 PM NET	\$29.95	\$26.95

See page 62 for more Electronic Dusters

Electronic Duster

Now you can use the same cleaning system that computer and copy-machine techs use nationwide. Its high power and 4-piece Micro Cleaning Tool Kit gets into all the nooks and crannies of your keyboard, computers, fax machines, printers, and scanners to bring them back to clean-room condition. Plus, its custom carrying case makes

it easy to ensure high level performance of everything you own.



Part No.	Description	Price
219256EA	Data vac pro	\$68.95
219264EA	Disposable bags	4.99

Wireless keyboard and mouse set you free and end desktop cable clutter.



Tired of tugging at the cables that tie your keyboard and mouse to your PC? Replace them with this completely wireless multimedia keyboard and mouse. Just plug the receiver into two PS/2 ports on your PC, install the software, and you're jammin'. The system uses radio frequency (RF) communications technology, not infrared like many other wireless keyboards. So you don't have to worry about staying within line-of-sight of the receiver. In fact, you can use the keyboard and mouse up to 3' away. Keyboard includes 16 Internet and media hot keys. Opto-mechanical mouse features 3 buttons and scroll wheel, 400 dpi hardware high resolution. Includes 2AA batteries for keyboard; 2AAA batteries for mouse, user's guide, multimedia drivers.

Part No.	Description	Price
233381EA	Wireless RF keyboard and mouse	\$29.95

Feel the relief with cool 100% glare-free lighting.

Finally, a lamp that lets you work hours longer without eye fatigue or overheating. The ingeniously designed Eclipse Computer Light provides the soft, cool, glare-free light recommended by optometrists. The secret is a bulb

concealed in the base, and an airfoil-shaped hood that reflects light softly, so you notice your work, not the light. The bulb lasts 10,000 hours and can be replaced at most hardware and lighting stores. Mounts securely with double-sided foam tape.

No more tired eyes! Dim the room lights and enjoy perfect work lighting without strain or sweat.



Glare-free Computer Light on 16" monitor



Glare-free Document Light

Compact mounting pad even fits flat panel monitors. 8"H x 10"W x 4"D. For glare-free illumination of your documents, add the Glare-Free Document Light & Copyholder. Mounts on either side of your monitor, flips back when not in use. Both include AC power cords with adapter and a 5-year manufacturer's guarantee!

SALE

Part No.	Description	Price
224303EA	Glare-free eclipse executive computer light	\$31.95
224311EA	Glare-free document light & copyholder	23.95

Zip open your mail with the greatest of ease!

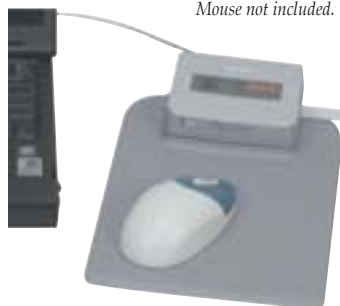
Open your important correspondence in style with this handy little cordless wonder. Paper cuts and torn contents are a thing of the past; just place the edge of each envelope in the self-feeding slot, and your letters of all shapes and sizes glide through to be effortlessly, professionally and safely opened. No efficient desk should be without one!

Part No.	Description	Price
235475EA	Handheld letter opener	\$9.95

**Casio mouse pad with label printer saves space!**

This combination mouse pad and mini-printer makes labeling chores simple, affordable and fun. Labeling videotapes, envelopes, binders and files is one-click easy! Highlight text in your document, choose a pre-defined phrase, or type labels directly and your 18mm label pops out, ready-to-use. Compatible with Microsoft Windows® 98, 98SE and 2000 Professional PCs with USB.

Part No.	Description	Price
235483EA	Mouse pad label printer	\$19.95



Mouse not included.

EZ/CDPrint Printer

Introducing the EZ/CDPRINT, the first printer that delivers a low-cost way to create professionally printed CD-R's, Credit Card CD-R's, CD Jewel case liner notes and standard color paper documents.

- Prints a full color CD in about a minute
- Compatible with all inkjet printable CD-R & DVD-Rs
- Both USB and parallel port connections
- Uses standard C60/C62 Epson inkjet cartridges
- Prints paper documents at 12ppm monochrome & 7ppm color
- Printer size: 18.0"W x 8.0"D x 7.0"H
- Special PC and Mac software and templates to print CD, liner notes and more

Requires: Windows® 95/98/2000/ME/XP, Mac OS 8.1 or higher operating systems

Includes: Printer, PC and Mac printer and template software, three printable disks

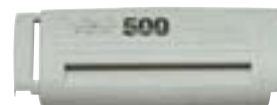
Part No.	Description	Price
220708EA	CD printer (software, cable, ink cartridges and CD-R's)	\$319.95
220716EA	100 pk. 40x 700MB 80 min. CD-R	42.95

**SALE****Fellowes Premium Confetti-Cut Personal Shredder**

Shredded pieces
(Confetti-cut)

When it's time to discard sensitive memos, bank statements, accounting records or other confidential business materials, you want to rest assured that they're gone for good. The PS60C-2 features faster throughput, greater capacity and a finer cut so your documents will disappear in short order. Do not let prying eyes poach business records. Let this model's confetti-cutting power turn that stack of confidential paperwork into a handful of scrambled dregs with shredded ease.

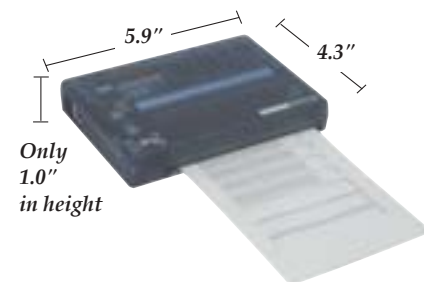
Part No.	Description	Price
219176EA	Confetti-cut shredder (refurbished)	\$49.95

Fellowes Strip-Cut Shredder

Shredded pieces
(Strip-cut)

Protect yourself from prying eyes and "dumpster divers" with a personal shredder that's packed with features. The P500-2 is designed to go anywhere you need it. Auto-start and stop means you can feed in up to 7 sheets at a time (staples, paper clips and all!) with one-handed ease; no fumbling for a switch. And at this price, you can turn every wastebasket in your home or office into a maximum security receptacle.

Part No.	Description	Price
219184EA	Personal strip-cut shredder	\$9.95

Mobile PDA Pocket Printer

Palm-sized computers and PDAs are great, but printed output can be a challenge. Enter the Pocket Printer with its internal batteries and wireless IR or serial-cable connections, this miniature wonder puts printer power in your pocket, at an unbeatable price. Now, you can output sharp text and continuous-tone graphics, anywhere and anytime. Everything you need is in the box: paper, serial cable, AC adaptor, travel bag and software for popular PDAs and desktops.

Part No.	Description	Price
233357EA	Mobile pocket printer	\$44.95

480-Watt Multimedia Amplified Speakers

- Input voltage: 120VAC
- 2 speakers
- Magnetically shielded
- 2-channel stereo amplifier
- Push button type power switch with LED indicator
- Knob controls for volume, bass & treble
- Size: 5.5"W x 7.0"D x 9.1"H • Weight: 5.3 lbs.



Part No.	Description	1	10
196066EA	480W speakers	\$39.95	\$35.95

Harman/Kardon Multimedia Amplified System

- 4.5 watt RMS per amplified speaker
- Transducer: 3" full range driver, magnetically shielded
- Frequency range: 90Hz to 20kHz
- Volume control, bass and treble control, LED indicator and headphone jack • Weight: 4.7 lbs.
- Size: 8.5"H x 4.5"W x 5.0"D (per speaker)



Includes: 16VAC @ 1A power supply

Part No.	Description	1	10
211001EA	H/K speaker system Was \$15.95	\$9.55	\$8.65

Hands-Free Condenser Microphone

- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H
- One-year warranty



Part No.	Description	1	10
135247EA	Microphone	\$3.69	\$3.15

In-Ear Stereo Headphones

- 3.5mm input jack connector
- Typical application: CD player
- Color: gray
- 4' Long



Part No.	Description	1	10
191880EA	Headphones	\$.39	\$.36

PC to TV Converter Box

- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible w/ Microsoft® Windows® 3.0 and higher
- Size: 6.0"L x 4.0"W x 1.0"H • Weight: 2.2 lbs.

System requirements: VGA-based PC, DOS 3.0 or higher, 640kB RAM or larger

Includes: Compact PC to video converter box, transformer, cables and manual



Part No.	Description	1	10
167193EA	Video signal pro	\$109.95	\$99.95

See our selection of Home Essentials on page 90-97.



Product Specifications:

- Frequency response 110Hz - 18kHz +/- 3dB
- Input impedance: 10KΩ
- Voltage: 110V
- Size speaker: 5.4"H x 2.8"W x 4.6"D
- Size subwoofer : 6.0"H x 4.3"W x 5.4"D
- Weight: 3.14 lbs.

Super-size sound for your PC, at drive-through prices!

You'll enjoy crisp highs and booming bass when you add this economical but feature-packed set of magnetically-shielded speakers to your computer system. The satellite speakers deliver big stereo sound in a small package that will complement any desktop. And the compact subwoofer discreetly belts out the bass to make your music and gaming experiences the best they can be. User-friendly features include trouble-free A/C power, convenient on/off and volume controls, and a small, classy footprint for flexible installation.

Part No.	Description	Price
233390EA	Powered subwoofer system	\$14.95

Surge supressor stops under-desk crawling, bad backs, & toe cramps.



Mounts neatly to the side of your monitor.



Free \$25,000 Equipment Protection Policy

Kensington is so sure their product will protect both your equipment and phones that they back it up with The Kensington Limited Lifetime Warranty that protects your equipment for up to \$25,000 against damage (see package for details).

Use our remote control surge suppressor and stop crawling under your desk or flipping on your equipment power with your toe. Just place the small remote control strip anywhere easily at hand, up to 6 feet away from the outlet strip. Attach the remote control to the side of your monitor with the enclosed

adhesive strips, if you like, to keep your desktop clear. Then power up 4 plugs, or turn off specific outlets with a touch of a button. One plug stays live continuously. The extra long power cord lets you place the base unit up to 9 feet from your wall outlet.

- EMI/RFI filtering: attenuation up to 40dB with frequency range of 600kHz-26MHz
- Energy rating: 420 joules (140 each line)
- Clamping voltage: 330V; telephone protection @ 465V
- Size: outlet strip 12.5"L x 3.0"W x 3.5"H; remote 6.5"L x 2.0"W x 1.0"H
- Current peak: 39,000A
- 15A circuit breaker
- 5 outlets/3 switches
- Failure indicator light
- UL listed

Part No.	Description	Weight	Price
211203EA	MasterPiece plus remote	2 lbs.	\$39.95

Special Purchase!
Limited Quantities!
Only \$39.95
Suggested Retail \$169.95

Cool, professional disc labels, made easy!

Now you can economically label your music CDs, business presentations, DVD compilations and multimedia portfolios like a true professional. Whether you choose standard-size discs, mini-discs or business-card media, this kit will help you design, print and apply the perfect label for your needs. Exact-fit applicator makes precise labeling quick and easy. Order refill kits now, too, in Gloss (LK4) or Matte (LK5) finishes, or choose a versatile kit (LK3) packed with jewel case inserts, disc labels, and multipurpose labels.

Part No.	Product No.	Description	Price
235150EA	LK2	CD/DVD/MINI label kit	\$19.95
235176EA	LK4	CD/DVD labels glossy white	12.95
235168EA	LK3	CD/DVD labels matte white	9.95
235184EA	LK5	Jewel case inserts	9.95



External 56kbps Fax/Modem

- Digital telephone answering machine with voice mail system
- RS-232 (DB9 female) interface
- Modem line speed: 300 – 56000bps
- Standard Compatibility: ITU-T V.92, V.90, V.34, V.32, V.32bis, V.23, V.22bis, V.21, and Bell 103, 212A
- Error Correction: ITU-T V.42, MNP2-4
- Data Compression: ITU-T V.42bis, MNP5
- Flow Control: RTS/CTS, XON/XOFF
- Comment Set: TIA/EIA 602 "AT" command set
- Fax /Modem Line Speed: 2400 ~ 14400bps
- Standard Compatibility: ITU-T V.17, V.27 ter, V.29
- Command Set: Class 1, 1.0, 2 and associated AT command sets
- Size: 6.3"L x 4.0"W x 1.3"H • Weight: 1.8 lbs.



System requirements: Pentium or PC compatible with 16MB of memory, available RS-232 slot; Windows® 9x/ME/NT4.0/2000/XP

Includes: RS-232 cable (DB25/DB9 female to DB9 male); phone cord, 9VAC@1A power supply, CDROM drivers and manual

Part No.	Description	1	10
216493EA	Conexant V.92 serial modem	\$49.95	\$44.95

NETGEAR® PCMCIA Network Card

Plug into the power of networking – share printers, share access to the internet, send and receive email and messages, drag and drop files between computers.

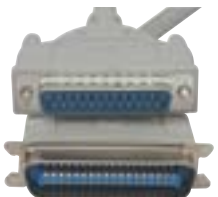


- Auto detection of 10/100 Mbps speed (10Base-T / 100Base-Tx)
- Full duplex capability
- Plug and play, easy installation • PCMCIA type II
- LED indicator for 100Mbps activity and link activity

Requirements: 486/Pentium® compatible laptop, PCMCIA slot (type II), Windows® operating system

Includes: 3.5" driver software, PCMCIA to RJ45 adapter and RJ45 network cable

Part No.	Description	1	10
210972EA	PCMCIA network card	\$29.95	\$27.95

The need for speed!

The IEEE 1284 is the standard in high-speed printing. Compatible with bidirectional communication data flow resulting in speeds up to 10 times faster than conventional applications.

- Double shielded with 28 AWG stranded twisted pair inner conductors • Color: gray
- Molded shells, PVC plastic • Weight: 0.6 lbs.

Part No.	Connector Type	Price
223845EA	6' DB25 M-centronics parallel 36 M ...	\$11.95

More computer cables on page 74

Greater security and network convenience are only minutes away.

Your LAN needs a firewall/router that's ready for anything, and this is the one. This beauty is cable or DSL-ready, wireless-ready, Windows®, Unix, Linux or Mac-ready, and ready for any attack a would-be hacker might throw at your sensitive files.

This unit's Installation Wizard configures its four smart ports to link your machines with automated ease, allowing them to share data and your broadband connection with state-of-the-art security.

Specifications:

- 4 (LAN) 10/100 auto-sensing ports
- 1 (WAN) 10/100BaseT Ethernet RJ45 port to connect to any broadband modem such as DSL/Cable
- Wireless slot for NETGEAR MA401 PC card
- Security protection: Firewall – SPI (Stateful Packet Inspection), DoS (Denial of Service), IDS (Intrusion Detection System),



- VPN functionality: NAT traversal, PPTP and L2TP
- Model of operation: NAT (Network Address Translation), static routing, unrestricted users per port
- IP address assignment: static IP address assignment, internal DHCP server on LAN, DHCP client on LAN, PPoE client support
- 40/64 and 128-bit WEP encryption
- Smart wizard to automatically detect ISP address type, port range forwarding, exposed host, enable/disable WAN ping, MAC address cloning, NTP support, URL content filtering

Includes: 10' CAT5 cable, power adapter, user guide & CD-ROM software

Part No.	Connector Type	Price
233331EA	4-Port Firewall Router	\$99.95

Your solution for seamless roaming.

Wireless 802.11b Base Station

Wireless networking provides students, workers and laptop users seamless roaming connectivity to your network or cable modem. PHOEBE 802.11b wireless products are perfect for small businesses, schools

and for the home, and will boost productivity while saving you the cost of installing cables throughout your building or home. Simply plug-and-play and you have a connection to your network in minutes. Jameco has reviewed a lot of networking products and companies

- 11 channels
- Freq. bandwidth: 2.4 ~ 2.4835GHz
- DSSS (direct sequence spread spectrum) provides superior noise immunity to broadband interference
- 64/128bits WEP encryption
- IEEE802.11b standard

SALE

220652EA	215600EA	215618EA
Transmission power: 18dBm Access point, access point client & wireless bridge operation mode-82dBm	5MHz Channel spacing PCMCIA Type II; built in 3D antenna. Indoor range: up to 50 meters. Outdoor range: up to 300 meters -80dBm	Channel spacing: 5MHz; Interface: USB1.1 (client) Indoor range: up to 90 meters Outdoor range: up to 300 meters -80dBm

Part No.	Description	Price
220652EA	Wireless access point 11Mbps	\$97.95
215600EA	PCMCIA wireless network card	49.95
215618EA	Wireless USB adapter	59.95



USB Wireless Transceiver for Desktop Computers

Didn't find what you are looking for here? You'll find our entire line on our website. Log on today!

www.Jameco.com

Share printers, files, and DSL inexpensively through the phone wiring already in your home!

Multiple PC users in your house? Turn your home phone wiring into an instant network for sharing printers, files, modems, applications, DSL lines, Internet access, and for playing interactive games. This inexpensive solution lets computers up to 500 feet apart communicate over existing phone wiring. There's no drilling or cable snaking from room-to-room. And you don't lose a single phone jack or printer port. Installation is easy. The manual is excellent, and you get 90 days support free. Package includes hardware and

software for networking 2 PCs: 2 adapters (Intel 21145 phone line/Ethernet LAN controller), 2 parallel cables, 2 phone cables, 1 CD-ROM. Purchase an additional package for each 1-2 PCs. Requires 486 PCs or higher, Windows®95/98, 8 MB RAM, 18 MB hard disk space, parallel port for printer use. At least one PC must have CD-ROM drive, modem, Internet access.

Part No.	Description	Price
220417EA	Any Point™ home network	\$29.95

Originally \$189.99
Now \$29.95

SALE



Back View Front View

Don't waste money on separate printers, modems and Internet connections. Install the AnyPoint Home Network, and let everyone share at speeds of up to 1Mbps.

Modular Cable Tester with Remote Terminator

Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc. Test installed cables either on wall plate or patch panel from a distance.



CE

- Check for cable continuity, miswiring, open, short, grounding and pin configurations
- Cable adapters: RJ45 M-M, 2 RJ45M-BNCM & BNC F-F
- On-board connectors: 2 RJ45F (tester) and 1 RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote) • Wt.: 0.7 lbs.

Includes: Manual and test cables

Part No.	Description	1	10
145710EA	Modular cable tester	\$84.95	\$76.49

RS-232 Line Status Tester

Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19 and 20. Connectors: male to female DB25.



Part No.	Description	1	10
14285EA	Check line tester	\$8.95	\$8.09

See our website for our complete collection of networking products. Log on Today! www.jameco.com

Flexible Multilink RS-232 Tester & Breakout Box



Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20 and 22 on the DTE and DCE sides.

Provides signal status at a glance. Complete cable "breakout" & reconfiguration. Connectors: DB25 male & DB25 female.

- Cable length: 4" • Size: 3.5"L x 3.3"W x 1.0"H

Includes: handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10
25945EA	Tester/breakout box	\$22.95	\$19.95

Short Haul Modem

- Up to 38,400 baud
- Will communicate over 6.3 miles of cable
- No external power required • DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS-232 interface (DB25 female)

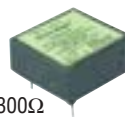


Part No.	Description	1	10
116581EA	Short haul modem	\$29.95	\$26.95

Black Magic Telephone Ringing Generator

Switching inverter that produces low-frequency alternating current to signal telecom ringers or equivalents.

- Frequency: 20Hz • Series resistor: 300Ω
- Nominal output voltage: 86 Vrms
- No reverse polarity protection



Part No.	Product No.	1	10
145816EA	LBMR12	\$26.95	\$24.49

Diagnostic Card for PCI-Bus Systems



This is the first diagnostic card for monitoring Power-On-Self-Test results in systems using PCI-Bus architecture.



- Plugs into any PCI I/O slot
- Digital indicators for every POST code error
- LEDs for monitoring power (DC): +12, -12, +5, +3
- LEDs for clock and reset failure
- Comprehensive manual w/ error codes from all major BIOS manufacturers including AMI, AWARD, PHOENIX and more • One-year warranty

Part No.	Description	1	10
135108EA	PCI-POST diagnostic card ..	\$219.95	\$197.95

Computer Monitor & NTSC Tester

Mac, PC and TV

- Tests VGA, Super VGA, Mac monitors and TVs
- Checks full-field color bars, color raster, dots (static and dynamic convergence), cross-hatch and windows (power supply regulation, checks for a clear distinction between white and black portions)
- Connectors: HDDB15F, DA15F
- Two video connectors for TV, composite and S-video
- Power with either a 9V battery or an external DC adapter (recommend P/N 151095EA, pg 34 or P/N 100845EA, see website)
- One-year warranty
- Size: 5.5"L x 3.0"W x 1.4"H • Weight: 0.7 lbs.



GME

Part No.	Description	1	10
149729EA	Computer monitor tester ...	\$189.95	\$179.95

Charge and sync your PALM or IPAQ with one cable; thin as a shoelace.

A boon for frequent travelers, ZipLinq manage all your PDA power and data transfer functions with a single cable. No charger cradle needed.

Imagine being able to charge the battery on your PDA, sync it to your PC, and download contacts...all with a single cable as flexible as

a shoestring. If you're always on the go, the ZipLinq PDA cable is your new best friend. Lighter and more flexible than any cable you've ever seen — even a phone cord —

ZipLinq transfers data at speeds up to 12 MBps while simultaneously charging your PDA battery. When it's done, the 2-1/2'



cable zips away into a durable case the size of a coat button. Now you see it... now you don't.

Part No.	Description	Price
226350EA	Palm Sync-N-Charge for ME00s, 1750 and M130	\$11.95
226333EA	IPAQ Sync-N-Charge for 36xx and 37xx series	11.95
226341EA	IPAQ Sync-N-Charge for PC38x, 39x & 5400 series	11.95

New cat 6 technology improves performance effortlessly.

The difference between category 5e and category 6 is in the transmission performance, and extension of the available bandwidth from 100 MHz for category 5e to 200 MHz for category 6. This includes better insertion loss, near end crosstalk (NEXT), return loss, and equal level far end crosstalk (ELFEXT). These improvements provide a higher signal-to-noise ratio, allowing higher reliability for current applications and higher data rates for future applications. Category 6 cables are 100% backward compatible with Cat 5 and Cat5e systems.

Although category 6 and category 5e connectors may look alike, category 6 connectors have much better transmission performance. This means that a category 6 connector couples about 1/12 of the power that a category 5e connector couples from one pair to another pair. Conversely, one can say that a category 6 connector is 12 times less "noisy" compared to a category 5e connector. This vast improvement in performance was achieved with new technology, new processes, better materials and significant R&D resources, leading to higher costs for manufacturers.

Part No.	Description	1	10
219758EA	Cat 6 Cable Black 3'	\$6.29	\$5.79
219766EA	Cat 6 Cable Black 7'	7.99	7.39
219774EA	Cat 6 Cable Black 14'	8.99	8.29
219782EA	Cat 6 Cable Black 25'	13.49	12.39
219791EA	Cat 6 Cable Black 50'	22.49	20.69
219854EA	Cat 6 Cable Blue 3'	6.29	5.79
219862EA	Cat 6 Cable Blue 7'	7.99	7.39
219871EA	Cat 6 Cable Blue 14'	8.99	8.29
219889EA	Cat 6 Cable Blue 25'	13.49	12.39
219897EA	Cat 6 Cable Blue 50'	22.49	20.69
219707EA	Cat 6 Cable Gray 3'	6.29	5.79
219715EA	Cat 6 Cable Gray 7'	7.99	7.39
219723EA	Cat 6 Cable Gray 14'	8.99	8.29
219731EA	Cat 6 Cable Gray 25'	13.49	12.39
219740EA	Cat 6 Cable Gray 50'	22.49	20.69
219803EA	Cat 6 Cable Green 3'	6.29	5.79
219811EA	Cat 6 Cable Green 7'	7.99	7.39
219820EA	Cat 6 Cable Green 14'	8.99	8.29

Part No.	Description	1	10
219838EA	Cat 6 Cable Green 25'	\$13.49	\$12.39
219846EA	Cat 6 Cable Green 50'	22.49	20.69
219900EA	Cat 6 Cable Red 3'	6.29	5.79
219918EA	Cat 6 Cable Red 7'	7.99	7.39
219926EA	Cat 6 Cable Red 14'	8.99	8.29
219934EA	Cat 6 Cable Red 25'	13.49	12.39
219942EA	Cat 6 Cable Red 50'	22.49	20.69
220003EA	Cat 6 Cable White 3'	6.29	5.79
220011EA	Cat 6 Cable White 7'	7.99	7.39
220020EA	Cat 6 Cable White 14'	8.99	8.29
220038EA	Cat 6 Cable White 25'	13.49	12.39
220046EA	Cat 6 Cable White 50'	22.49	20.69
219951EA	Cat 6 Cable Yellow 3'	6.29	5.79
219969EA	Cat 6 Cable Yellow 7'	7.99	7.39
219977EA	Cat 6 Cable Yellow 14'	8.99	8.29
219985EA	Cat 6 Cable Yellow 25'	13.49	12.39
219993EA	Cat 6 Cable Yellow 50'	22.49	20.69

SALE Modular Telephone/Printer Sharing Cables (Gray)

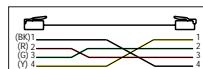
- RJ11 – 6P2C/6P4C for telephone or network
 - RJ11 – 6P6C for telephone or printer sharing
 - RJ45 – 8P8C for telephone or modem-dial-up use
- Style 1** – Reverse wiring for telephone systems
Style 2 – Straight wiring for networking/printer sharing

* 10 pc. min.

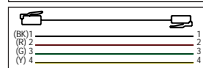
Part No.	Conn. Style	Type	Length	Pricing	
				1	10
189940EA	1	RJ11-6P2C	7ft.	\$.99	\$.85
189931EA	1	RJ11-6P4C	1ft.	*	.09
196226EA	1	RJ11-6P4C	7ft.	1.49	1.15
115553EA	2	RJ11-6P4C	7ft.	1.25	1.09
205903EA	1	RJ11-6P4C†	14ft.	.70	.64

† Beige

Style 1



Style 2



Part No.	Conn. Style	Type	Length	Pricing	
				1	10
115545EA	1	RJ11-6P4C	25ft.	\$2.29	\$2.09
115588EA	1	RJ11-6P6C	7ft.	1.55	1.35
115617EA	2	RJ11-6P6C	7ft.	2.19	1.99
115676EA	2	RJ45-8P8C	7ft.	1.89	1.75
115684EA	2	RJ45-8P8C	14ft.	2.09	1.89

Low Cost Data/Phone Cables**What is the difference between enhanced category 5e cable rated for 350 MHz and category 6 cable rated for 200 MHz?**

Category 5e cable is specified up to 350 MHz. Cables can be tested up to any frequency that is supported by the test equipment, but such measurements are meaningless without the context of applications and cabling standards.

The category 6 standard sets minimum requirements up to 200 MHz for cables, connecting hardware, patch cords, channels and permanent links, and therefore guarantees reasonable performance that can be utilized by applications.

Modular Plugs

P = No. of positions C = No. of contacts
 W/E = Western Electric type number

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	W/E	1	10	100
79290EA	6P4C (RJ11)	623	*	\$.12	\$.11
79273EA	6P6C (RJ11)	623	*	.22	.195
79281EA	8P8C (RJ45) (for stranded wire)	641	*	.28	.24
119343EA	8P8C (RJ45) unshielded (for solid wire)	—	.49	.44	.35

SALE Modular Jacks

- PC mount
- Voltage rating: 150 volts AC max.
- Contact current rating: 1.5 amp max. @ 25°C
- Durability: 750 mating cycles

Part No.	Description	W/E	1	10
151765EA	6P4C (RJ11) side flange	AMP	\$.45	\$.43
105945EA	6P4C (RJ11) top flange	623	.62	.49
115836EA	6P6C (RJ11) side flange	—	.74	.67
204177EA	6P6C (RJ11) dual	—	1.49	1.35
124038EA	6P6C (RJ11) 6" leads	—	1.25	1.15
115844EA	8P8C (RJ45)	641	.48	.44
167290EA	8P8C (RJ45) top flange	—	.39	.35

Modular Jacks SALE**Punchdown Keystone Type**

- Removable jacks used in wall plates (clip in)
- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 0.63"H x 1.23"D

RJ45

Part No.	Color	1	10
195590EA	Red	\$3.75	\$3.55
195602EA	Yellow	3.75	3.55
195611EA	Green	3.75	3.55
195629EA	Black	3.75	3.55
195637EA	Ivory	3.75	3.55
212951EA	Blue	3.75	3.55
212943EA	White	3.75	3.55

RJ11

Part No.	Color	1	10
213524EA	Black	\$3.75	\$3.55
213516EA	White	3.75	3.55

More @ Jameco.com

BNC PCB Connectors

- **146528EA:**
Ideal for applications where multiple insertions require a connector which can endure the stress of high torque
- **146510EA/161656EA:**
Maintains matching impedance at 50Ω & 75Ω. Ideal for LAN cards & precision video

Part No.	Description	Length (L)	1	10
146528EA	BNC straight metal	.719"	\$2.79	\$2.49
146510EA	BNC right-angle plastic insulation	1.37"	1.95	1.75
161656EA	BNC right-angle metal	.861"	2.29	1.99

SALE

146528EA



146510EA



161656EA

Cat 5e Crossover Cable

- 4-pair • 8P8C • UTP • Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded • Strain relief RJ45 connectors

Part No.	Description	1	10
169261EA	10' cable RJ45, gray	\$6.95	\$6.25



RJ45 Keystone Wall Plates

- Color: ivory • Size: 2.8"W x 4.5"H

Part No.	No. of ports	1	10
195549EA	1	\$1.25	\$1.15
195557EA	2	1.25	1.15
195565EA	3	1.25	1.05
195573EA	4	1.25	1.06



SALE

Modular Jack Boxes and Wall Plate

Add phone lines and network connections with our modular jack boxes and wall plate. Screw down terminals and color coded wires for easy installation and troubleshooting.



Fig. 1 (72311EA)



Fig. 2 (71651EA)



Fig. 3 (213031EA)



Fig. 4 (213049EA)

Part No.	Description	Fig.	Dimensions (WxHxD)	1	10
72311EA	6P6C & 8P8C double wall jack plate w/ jacks (beige)	1	2.8" x 4.5"	\$1.95	\$1.75
103464EA	6P4C adhesive jack RJ11 (beige)	2	2.0" x 2.2" x 0.9"	1.39	1.19
71984EA	6P6C adhesive jack RJ11 (beige)	2	2.0" x 2.2" x 0.9"	1.39	1.19
71651EA	8P8C adhesive jack RJ45 (beige)	2	2.0" x 2.2" x 0.9"	1.95	1.65
213031EA	8P8C adhesive jack RJ45(single, white) (CAT 5e)	3	1.5" x 2.4" x 1.1"	3.29	2.99
213049EA	8P8C adhesive jack RJ45(dual, white) (CAT 5e)	4	2.4" x 2.4" x 1.1"	4.15	3.75

Surface Mount Boxes

Category 5 and 5e

SALE



176073EA



213014EA

- RJ45
- 100MHz
- Size: 2.6"L x 3.2"W x 1.2"H
- CAT 5e (except P/N 176073EA)

Part No.	Description	1	10
176073EA	Single jack (beige)	\$6.95	\$6.25
213022EA	Single jack (white)	6.95	6.25
176081EA	Dual jack (beige)	\$10.99	8.99
213014EA	Dual jack (white)	\$10.99	9.99

RS-232-to-RJ11/RJ45 Modular Jack Adapters



66181EA

66237EA

Change your RS-232 port to a RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS-232 cable, thus simplifying networking applications. Comes complete with wiring and hardware.

Part Number	Cross Ref. No.	Description	1	10
66181EA	G9P6	DB9 M-RJ11(6P6C)	\$2.59	\$2.35
66190EA	G9P8	DB9 M-RJ45(8P8C)	2.89	2.65
114737EA	G9S4	DB9 F-RJ11(6P4C)	1.95	1.79
66211EA	G9S8	DB9 F-RJ45(8P8C)	2.99	2.69
66229EA	G25P6	DB25 M-RJ11(6P6C)	2.95	2.35
66237EA	G25P8	DB25 M-RJ45(8P8C)	2.99	2.69
204273EA	TMA-105	DB25 F-RJ11(6P4C)	1.95	1.69
66245EA	G25S6	DB25 F-RJ11(6P6C)	2.59	1.95
66253EA	G25S8	DB25 F-RJ45(8P8C)	2.89	2.59

226-Piece Network Connector Kit



Every connector needed to repair a network.

- Size: 10.5"L x 7.0"W x 1.5"H • Weight: 2.5 lbs.

This kit includes:

Quantity	Connector Type
50 pieces (each)	RJ11 solid flat cable (6P4C) RJ11 solid flat cable (4P4C)
25 pieces (each)	RJ11 solid round cable (6P4C) RJ45 solid round cable (8P8C) RJ45 solid flat cable (8P8C)
20 pieces	RJ45 protection caps (assorted colors)
5 (each)	BNC for RG58/U cable BNC for RG59/62/U cable BNC for RG174 cable BNC 50Ω terminator BNC Female-to-female adapter BNC T-adapter male-female-female
1 piece	Storage kit

Part No.	Description	1	10
207079EA	Network connector kit	\$42.29	\$38.39

Network Expansion Accessories

Part No.	Description	1	10
168321EA	15' cable RJ45	\$7.99	\$6.79
173606EA	PCI ethernet card	14.95	13.49

Single-Line DSL Telephone Filter

In-line Z-BLOCKER® filter blocks interference between DSL/HPN, voice and RF from cordless phones. Plugs directly into any standard phone jack and works with any single line phone, fax or dial-up modem.



Part No.	Description	1	10
196429EA	Telephone filter	\$2.99	\$2.69

Wall Mount Phone Plate with DSL In-Line Filter

Replace your existing regular wall mount phone plates with this phone plate with built-in DSL in-line filter. Provides a single jack for filtered voice devices (e.g. phone, fax, answering machine, caller ID, analog modem, DSL modems)

- Stop band isolation is 21dB from 25kHz to 50kHz and 25dB or greater
- Filter topology: 2-pole low pass
- DC resistance through T&R to telephone port is 13Ω maximum
- Size: 4.7"H x 3.2"W x .025"Thick



NEW

Part No.	Description	Price
237041EA	Wall phone mounting plate w/ DSL filter	\$19.95

Over 99% of our products are in stock!

www.Jameco.com

More networking products on our website.
Log on today!

Gray Flat Ribbon Cable – 28 AWG



- Single edge red stripe for pin 1 orientation
- Insulation: polyvinyl chloride (PVC) • 28 AWG (7 x 36) • Center spacing: 0.05"
- Voltage rating: 300V • Stranded copper wire • Temp. rating: -20°C to +80°C
- Prepackaged and priced in increments of 10' or 25'

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.
135538EA	171-10	10	\$1.49	\$3.20
37671EA	171-16	16	2.20	5.00
37719EA	171-20	20	4.00	6.25
37760EA	171-25	25	3.90	8.75
37807EA	171-26	26	3.49	8.00
37840EA	171-34	34	4.25	9.25
37911EA	171-37	37	5.90	11.75
37920EA	171-40	40	7.40	17.50
37954EA	171-50	50	6.75	14.50
103481EA	171-60	60	8.95	19.75

Multicolor Flat Ribbon Cable – 28 AWG

- Standard 10-color repeat sequence • 28 AWG (7 x 36)
- Center spacing: 0.05" • Voltage rating: 300V
- Temp. rating: -20°C to +80°C • Stranded copper wire
- Prepackaged and priced in increments of 10' or 25'

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.
112547EA	28RC10	10	\$1.95	\$4.50
105671EA	28RC16	16	3.25	7.25
105689EA	28RC20	20	3.95	9.00
105697EA	28RC25	25	6.29	14.25
105700EA	28RC34	34	6.50	13.00
105726EA	28RC40	40	8.69	19.553
105718EA	28RC50	50	10.95	24.95

Solid Hook-Up Wire – 22 AWG

- Temp. range: -55°C to +105°C • Passes UL VW-1 flame test
- MIL-W-16878D type B • Wt.: 100' (0.3 lbs.); 1000' (3.8 lbs.)
- For use with breadboards such as the JE20 series, pg 52

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
36767EA	122BE/C	Blue	\$4.49	36775EA	122BE/K	Blue	\$29.95
36791EA	122BK/C	Black	4.49	36804EA	122BK/K	Black	35.95
36821EA	122G/C	Green	4.49	36839EA	122G/K	Green	29.95
36855EA	122R/C	Red	4.49	36863EA	122R/K	Red	39.99
36880EA	122W/C	White	4.49	36898EA	122W/K	White	39.99
36919EA	122Y/C	Yellow	4.49	36927EA	122Y/K	Yellow	29.95

Modular Telephone Cable – 28 AWG

- Color coded conductors • Flat modular cable
- PVC jacket • Gray • 7 x 43 stranded

Part No.	Cross Ref. No.	Conductors	100 ft.	1000 ft.
103430EA	MTC4	4	\$3.30	\$30.00
103448EA	MTC6	6	7.00	50.00
103450EA	MTC8	8	10.00	62.00

2-Conductor Stranded Power/Speaker Cable – 24 AWG

- Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32) • Operating voltage: 300V

Part No.	Cross Ref. No.	Wt. (lbs.)	100 ft.	Part No.	Cross Ref. No.	Wt. (lbs.)	1000 ft.
100280EA	224BK/C	0.8	\$5.59	100298EA	224BK/K	7.8	\$39.95

RG Type Bulk Coaxial Cable

- RG58/U & RG58A/U (50Ω): Nom. cap.: 27pF/ft.; center resist.: 10.4Ω/kft. @ 77°F
- RG59/U (75Ω): Nominal capacitance: 19pF/ft.; center resist.: 16.5Ω/kft. @ 77°F
- RG174/U (50Ω): Nominal capacitance: 30.8pF/ft.; center resist.: 97Ω/kft. @ 77°F

- Prepackaged and priced in increments of 100' or 1000'

Part No.	Cross Ref. No.	Description	100 ft.	1000 ft.
102226EA	RG58/U	For ethernet, oscilloscopes (solid 20AWG)	\$12.00	\$90.00
116898EA	RG58A/U	For ethernet, oscilloscopes (stranded 20AWG)	19.00	150.00
102218EA	RG59/U	For CATV & video patch cords (solid 22AWG)	13.00	110.00
112037EA	RG174/U	For ethernet, oscilloscopes (stranded 26AWG)	19.00	169.00

Category 5 Network Cable

- Insulation: polyethylene • Nom. OD.: 0.189" • UTP
- Nom. impedance: 100Ω • 8C • 4 twisted pairs

Solid: uses modular plug P/N 119343EA, pg 84

Stranded: uses modular plug P/N 79281EA, pg 84

- Prepackaged and priced in increments of 25' or 100'

24 AWG UTP Category 5 Enhanced – 350MHz

Part No.	Description	25 ft.	100 ft.
176225EA	Solid (gray)	\$5.00	\$17.00
201603EA	Stranded (blue)	5.00	14.00
176233EA	Stranded (gray)	6.00	21.00
201574EA	Stranded (red)	6.00	18.00
201582EA	Stranded (blue)	6.00	18.00

24 AWG UTP Category 5 – 100MHz

Part No.	Description	25 ft.	100 ft.
118113EA	Solid (gray)	\$4.59	\$16.49
118130EA	Stranded (gray) (7/32 AWG)	5.95	19.35
201646EA	Stranded (gray) (7/32 AWG)	5.50	15.00

Multiconductor Shielded Computer Communication Cable – 24 AWG

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC)
- Voltage rating: 300V • Color: gray • Drain wire
- 24 AWG (7 x 32 AWG) • Shielded 100% w/ aluminum mylar
- Prepackaged and priced in increments of 25' or 100'

Part No.	Cross Ref. No.	Conductors	Diameter	25 ft.	100 ft.
31860EA	SC4	4	0.20"	\$4.75	\$17.00
31878EA	SC9	9	0.23"	11.25	35.00
31843EA	SC15	15	0.28"	14.75	49.00
31851EA	SC25	25	0.37"	22.25	71.00

Stranded Hook-Up Wire – 20/22 AWG

300 Volts

- 80°C • PVC insulation • CSA: TR-64 • UL style: 1007
- Temperature range: -40°C to +80°C • Sold in 100' rolls

Part No.	Cross Ref. No.	AWG	Strands (No. x AWG)	Color	Wt. (lbs.)	1	10
126084EA	223SBK/C	22	7 x 30	Black	0.4	\$3.39	\$2.99
126033EA	223SR/C	22	7 x 30	Red	0.4	3.39	2.99
126076EA	223SW/C	22	7 x 30	White	0.4	3.39	2.99
125840EA	203SBK/C	20	10 x 30	Black	0.6	4.95	4.49
125794EA	203SR/C	20	10 x 30	Red	0.5	4.95	4.49
125831EA	203SW/C	20	10 x 30	White	0.5	4.95	4.49
125786EA	183SBK/C	18	16 x 30	Black	0.8	5.79	5.25
125735EA	183SR/C	18	16 x 30	Red	0.8	5.79	5.25

Twisted Pair Cable – 24 AWG

- PVC insulation • Use for hook up wire • Stranded tinned wire (7 x 32)
- Reduced EMI • Wt.: 100' (0.5 lbs.); 1000' (4.7 lbs.) • 80°C • 300 V

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
105911EA	224GW/C	Green/white	\$5.49	105806EA	224GW/K	Green/white	\$44.95
173147EA	224RW/C	Red/white	5.49	173155EA	224RW/K	Red/white	44.95
173163EA	224BW/C	Black/white	5.49	173171EA	224BW/K	Black/white	44.95

Kynar™ Wire Wrap Wire – 30 AWG

- Assorted color coded insulation
- Used for prototyping
- Color coded Kynar™ (Polyvinylidene Fluoride) insulation
- Silver plated copper (solid conductor) • UL 1423
- Temperature: -40°C to +125°C

- Wire wrap tools, see web • Passes UL VW-1 flame test

Part No.	Color	Wt. (lbs.)	100 ft.	Part No.	Color	Wt. (lbs.)	100 ft.
22541EA	Blue	0.1	\$4.95	22664EA	White	0.1	\$4.95
22576EA	Black	0.1	4.95	22605EA	Green	0.1	4.95
22630EA	Red	0.1	4.95	22699EA	Yellow	0.1	4.95

Check out the Hundreds of NEW wire and cables from Belden at www.Jameco.com.

Enjoy a clearer signal & more stations with Phillips® antenna.



Most antennas are big or ugly, maybe even both! Many of the antennas out there are highly directional – so they get in the way when you orient them for best performance. But Phillips® packs a potent punch in a small package. This sleek package houses an omni-directional, powered FM antenna. It's miniature amplifier boosts weak signals so you can actually enjoy previously unlistenable, distant stations. You'll hear dramatically improved reception on both AM and FM bands, from a stylishly small device that hides on any shelf or can be mounted on any wall. Easily installs into any stereo. Includes one 75Ω to 75Ω and one 75Ω to 300Ω matching transformer.

Part No.	Description	Price
235011EA	Phillips® AM/FM stereo antenna	\$11.95

Take a look at page 97 for a variety of remote controls. You may find the one perfect for you!



www.Jameco.com

RG Type Bulk Coaxial Cable

RG58/U & RG58A/U (50Ω): Nominal cap.: 27pF/ft.; center resist.: 10.4Ω/1kft. @ 77°F
RG59/U (75Ω): Nominal capacitance: 19pF/ft.; center resist.: 16.5Ω/kft. @ 77°F
RG174/U (50Ω): Nominal capacitance: 30.8pF/ft.; center resist.: 97Ω/kft. @ 77°F

• Prepackaged and priced in increments of 100' or 1000'

Part Number	Mfr. Cross Ref. No.	Description	100 ft.	1000 ft.
116898EA	RG58A/U	For ethernet, oscilloscopes (stranded 20AWG)	\$19.00	\$150.00
112037EA	RG174/U	For ethernet, oscilloscopes (stranded 26AWG)	19.00	169.00

BNC/RCA Adapters

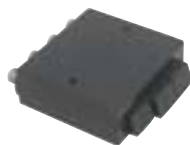
• Convert existing cabling systems to more readily available parts for expansion, replacement or upgrade



Part No.	Description	1	10
114788EA	RCA female to BNC male adapter	\$1.35	\$1.05
114753EA	RCA male to BNC female adapter	1.59	1.45
114770EA	BNC female to "F" connector male adapter	1.79	1.59

Coaxial Switch Box

• 3-way switch box, switches from a single input source to 3 outputs
 • 60dB isolation – shielded housing
 • 75Ω input-output
 • 5-900MHz UHF/VHF/FM



Part No.	Description	1	10
228241EA	Coaxial switch box	\$4.85	\$4.59

SMA Connectors



• Application: cellular phone, data communication, instrumentation and video
 • 50Ω impedance
 • Plating gold except **153285EA**: plating nickel
 • Temperature range: -65°C to 165°C • Frequency range: 0-18GHz

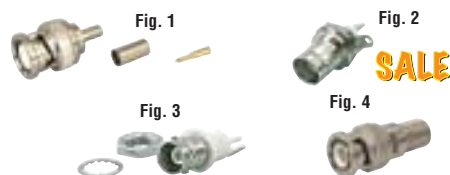
157972EA: Cable type: RG-58 **153365EA:** Cable type: RG-174

153285EA: Cable type: RG-58/174

Part No.	Description	1	10
157972EA	SMA 50Ω crimp type male plug connector	\$3.99	\$3.59
153365EA	SMA 50Ω crimp type male plug connector	4.39	3.95
145381EA	SMA straight female PCB mount connector, 4 legs	5.25	4.75
153285EA	SMA bulkhead solder female w/ washer, rear mount	3.49	3.15
160021EA*	SMA female panel mount conn., 2 mounting holes	3.99	3.59
160012EA	Panel mount feed thru connector female – female	4.99	4.49
188509EA	SMA PCB straight jack	3.69	3.35
188525EA	SMA PCB right angle jack	5.95	4.95

*160021EA: Solder cup

BNC Coax Connectors



BNC connectors are miniature, lightweight units designed to operate up to 11GHz and typically yield low reflection up to 4GHz.

Part No.	Fig.	Description	1	10
71482EA	1	BNC M w/ pin & ferrule (RG58)	\$1.65	\$1.49
112109EA	1	BNC M w/ pin & ferrule (RG174)	1.59	1.45
135618EA	2	BNC M w/ pin & ferrule (RG6) .....	.89	.69
71271EA	2	BNC M w/ pin & ferrule (RG59/62) ...	.81	.66
71589EA	2	BNC F panel mount (UG-1094A) ...	1.49	1.35
111561EA	3	BNC F isolated bulkhead	2.29	1.99
174254EA	4	BNC M to F conn. F	1.99	1.59

SMA/SMB 50Ω Coax Cables



Fig. 1: SMA male to SMA male
 Fig. 2: SMA male to SMA right angle male

Part No.	Cable	Fig.	Length (ft.)	1	10
159370EA	RG58	1	2	\$4.49	\$3.99
159396EA	RG58	1	6	5.49	4.89
169800EA	RG174	1	0.5	5.59	4.99
163854EA	RG174	1	1	4.49	3.95
153381EA	RG174	1	2	4.95	4.29
153390EA	RG174	1	4	5.49	4.75
159450EA	RG174	1	4	6.79	6.15
175126EA	RG174	2	0.5	4.49	3.95
175134EA	RG174	2	1	4.95	4.25

BNC Coax Cables



RG58/U 50Ω Cables

• For Ethernet networks, oscilloscopes

Part Number	Mfr. Cross Ref. No.	Lgth (ft.)	1	10
102314EA	CRG58-1	1.5	\$3.99	\$3.49
11404EA	CRG58-3	3	4.29	3.89
102331EA	CRG58-6	6	4.39	3.99
180822EA	CRG58-10	10	4.49	3.59
169818EA	CRG58-15	15	4.95	4.46
102365EA	CRG58-50	50	9.49	8.55

RG174/U 50Ω Cables

• For Ethernet networks, oscilloscopes

Part Number	Mfr. Cross Ref. No.	Lgth (ft.)	1	10
111472EA	RG174U3	3	\$3.85	\$3.49
111481EA	RG174U6	6	4.59	4.15

87 More @ www.Jameco.com

See our website for more BNC and SMA Adapters, Connectors and Coax Cables.

Digital Audio Optical Cables and Adapters

Connect your DVD, CD, Mini Disc, DAT, game console or other digital audio equipment for clear, full and richly detailed sound. For the ultimate listening experience, connect to your Dolby Digital® or DTS® home theater equipment. These cost effective performance TOSLINK type cables give you the cleanest possible signal, even at extreme volume levels for today's audio and home theater applications. They are manufactured with high-quality P.M.M.A. optical fiber with a highly polished lens. The durable connectors ensure long lasting, corrosion-free connections. The stylish PVC jacket adds flexibility and durability for years of listening pleasure. True digital signal is maintained by a low-loss core and inner clad provide low distortion, high signal-to-noise ratio, and high fidelity.

- Low-loss core provides low distortion and high signal-to-noise ratio
- Clad reflecting layer prevents phase error and noise, achieving high-fidelity transmission effect
- Corrosion-resistant, precise collar to ensure long lasting quality
- Non-slip rubber grip connector provides for easy installation
- Ultra flexible PVC jacket makes installation, even in hard to reach areas a snap



Cables

Part No.	Description	1	2	5
228654EA	3' TOSLINK-TOSLINK	\$3.79	\$3.35	\$2.85
228689EA	3' TOSLINK-mini plug	9.95	8.95	7.95
228662EA	6' TOSLINK-TOSLINK	4.75	4.29	3.79
228697EA	6' TOSLINK-mini plug	16.65	14.99	13.49
228671EA	12' TOSLINK-TOSLINK	7.29	6.59	5.95
228700EA	12' TOSLINK-mini plug	23.29	20.95	18.85

Adapters

230615EA	TOSLINK - mini plug adapter	\$2.79	\$2.59	\$2.49
230607EA	TOSLINK - TOSLINK coupler	1.89	1.79	1.69

Component Video and Audio Cables

Component video cables connect the latest video equipment like DVD players equipped with component video output jacks to LCD or plasma televisions, projectors and other component video devices. By using component video cables, you bypass the TV's Y/C separator and color decoder, routing the color (Y Pr Pb) information directly into the TV's matrix decoder. By sending the pure DVD component signal directly to a component video input-equipped display device, the DVD signal forgoes the extra processing that normally would degrade the image. The result is a vastly increased image quality, with incredibly lifelike colors and crisp detail. Python™ component video cables provide you maximum picture and sound quality compared to ordinary "out of the box" cables. This cable offers high quality vivid detail and color for today's video and home theater applications.

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provides excellent strain relief, easy installation, and identification
- 100%, .012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality
- Bonded construction design for neat, easy connection of component video and audio



Part No.	Description	1	2	5
228620EA	6' component video RGB cable	\$12.35	\$11.15	\$9.99
228638EA	12' component video RGB cable	23.75	21.39	19.25
228646EA	25' component video RGB cable	33.95	30.59	27.49
229403EA	6' component video RGB and stereo audio cable	17.29	15.59	13.99
229411EA	12' component video RGB and stereo audio cable ..	33.25	29.95	26.95
229420EA	25' component video RGB and stereo audio cable ..	47.55	42.79	38.55

Audio/Video Adapters and Cables

RCA Audio Adapters and Y-Cable

Part No.	Description	1	10
228283EA	RCA female jack to mono 1/4" male plug	\$.99	\$.89
228312EA	RCA male plug to 1/4" mono female jack	1.25	1.10
228267EA	RCA female to female jack coupler, gold plated .....	.95	.79
159441EA	RCA female to female jack coupler	\$1.99 1.15	.99
228259EA	RCA male to male plug adapter	1.59	1.25
228339EA	RCA F jack to 3.5mm mono M plug, gold plated	1.49	1.29
228291EA	RCA F jack to 3.5mm mono M plug, nickel plated	1.25	1.09
215458EA	RCA male plug to 3.5mm mono female jack .....	.89	.75
196808EA	5' Y-cable 1/8" stereo F jack to (2) RCA M plugs	\$1.15 .27	.24
139037EA	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	2.25	1.99
228401EA	6' Y-cable (2) RCA M plugs to 3.5mm stereo M plug	1.55	1.39
228371EA	6' Y-cable (2) RCA M plugs to RCA F jack .....	.99	.89
228355EA	6" Y-cable RCA M plug to (2) RCA F jacks	1.15	.99
228380EA	6" Y-cable (2) RCA F jacks to 3.5mm stereo plug	1.65	1.35
215466EA	8" Y-cable RCA M plug to (2) RCA M plugs	1.89	1.69

3.5mm Audio Adapters and Y-Cable

228275EA	3.5mm stereo female to female jack	\$.55	\$.49
215440EA	3.5mm mono female jack to 1/4" mono male plug	\$0.79 .47	.42
196082EA	3.5mm stereo female jack to 1/4" stereo male plug .....	.59	.49
228321EA	3.5mm mono M plug to 1/4" stereo F jack	1.39	1.15
228304EA	3.5mm stereo M plug to (2) 1/4" stereo F jacks	2.05	1.85
228339EA	3.5mm mono M plug to RCA F jack, gold plated	1.49	1.29
228291EA	3.5mm mono M plug to RCA F jack, nickel plated	1.25	1.09
215458EA	3.5mm mono female jack to RCA male plug .....	.89	.75
196808EA	5' Y-cable 1/8" stereo F jack to (2) RCA M plugs	\$1.15 .27	.24
139037EA	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	2.25	1.99
228398EA	6" Y-cable (2) 3.5mm stereo female jacks to 3.5mm stereo male plugs	1.95	1.65
228401EA	6" Y-cable (2) RCA M plugs to 3.5mm stereo M plug	1.55	1.39
228380EA	6" Y-cable (2) RCA F jacks to 3.5mm stereo plug	1.65	1.35



Audio/Video Adapters and Cables are continued on next page.

Audio/Video Adapters and Cables

SALE



Video/Audio Patch Cables

Part No.	Description	1	10
228216EA	3' stereo video patch cable, gold plated	\$1.19	\$1.13
228574EA	25' stereo video patch cable, gold plated	6.99	6.29
228582EA	50' stereo video patch cable, gold plated	12.59	11.35

VCR Cable

228224EA	6' stereo VCR cable	\$2.39	\$2.29
----------	---------------------	--------	--------

S-VHS Cables

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders, and DVD players

228558EA/228566EA: 95% spiral wound shield S-VHS/audio conductors

Part No.	Description	1	10
228591EA	6' S-VHS cable, gold plated	\$2.15	\$1.95
228558EA	6' S-VHS audio-video cable, gold plated	12.95	11.65
228566EA	12' S-VHS audio-video cable, gold plated	14.95	13.45
228603EA	12' S-VHS cable, gold plated	2.65	2.35
228611EA	25' S-VHS cable, gold plated	4.05	3.85

RCA Plugs

- High-quality plastic and metal housing RCA plugs

Gold plated metal housing with spring strain relief for 6.7mm cables

Part No.	Description	1	10
229876EA	Black	\$1.89	\$1.69
229868EA	Red	1.89	1.69
229884EA	White	1.89	1.69
230287EA	Yellow	1.89	1.69

Plastic screw on cover w/ integral cable protection

229921EA	Black (5 pk)	\$1.15	\$1.05
229930EA	Red (5 pk)	1.15	1.05
229913EA	White (5 pk)	1.19	1.09
229892EA	Yellow (5 pk)	1.19	1.09

RCA Jacks

SALE

- Standard RCA jacks for audio and video signals
- P/N 237016EA: 2x3 grid; † Red/white/yellow

Part No.	Description	Color	1	10
237016EA	2.0"W x .45"D x 1.1"H	†	\$.89	\$.79
220581EA	.44"W x .56"D x .48"H	White	.45	.31
220556EA	.44"W x .56"D x .48"H	Red	.45	.31
220572EA	.44"W x .56"D x .48"H	Black	.45	.31
220564EA	.44"W x .56"D x .48"H	Yellow	.45	.31
112475EA	.44"W x .58"D x .48"H	Red	.39	.35
169501EA	.40"W x .85"D x .50"H	Black	.39	.35
159484EA	.84"W x .38"H	Black	.49	.39
172339EA	.84"W x .38"H	Red	.49	.39

Video Adapters

Part No.	Description	1	10
229809EA	S-video 4-pin mini DIN female to female jack	\$2.85	\$2.59
229391EA	S-video male plug to RCA video female jack	5.39	4.85

RCA Cables

215474EA	3' RCA male plug - female jack (gray)	\$1.15	\$.99
228443EA	3' stereo RCA (2) male to (2) male plugs, gold plated	1.49	1.39
183311EA	4' RCA male to male plug (black)	.99	.85
206973EA	4' RCA male to male plug (yellow)	.99	.89
183302EA	4' RCA (2) male to (2) male plugs (red/black)	\$2.95 1.75	1.45
106374EA	6' RCA male to male plug	1.19	.98
228419EA	6' mono RCA male plug to female jack	1.65	1.45
228486EA	6' RCA stereo (2) male plugs to (2) female jacks	1.25	1.15
228451EA	6' RCA stereo (2) male to (2) male plugs, gold plated	1.79	1.69
177527EA	6' RCA (3) male to (3) male plugs	\$4.95 1.89	1.75
184882EA	6' RCA (3) male to (3) male plugs, low loss	\$3.95 1.95	1.79
228427EA	10' RCA female jack to male plug	2.35	1.95
29348EA	10' RCA male to male plug (yellow)	1.69	1.49
228460EA	12' RCA stereo (2) male to (2) male plugs, gold plated	2.10	1.89
225980EA	12' RCA (3) male to (2) male plugs, gold plated	4.49	3.99
225998EA	20' RCA (3) male to (2) male plugs, gold plated	7.99	7.19
228435EA	25' mono RCA male to male plug, nickel plated	2.19	2.09
228478EA	25' RCA stereo (2) male to (2) male plugs, gold plated	2.39	2.29

3.5mm Audio Patch Cables

228494EA	6' 3.5mm stereo male to male plug	\$1.39	\$1.19
228515EA	6' 3.5mm stereo male plug to female jack	1.49	1.35
228507EA	12' 3.5mm stereo male to male plug	1.69	1.49
228523EA	12' 3.5mm stereo male plug to female jack	1.65	1.49

3.5mm Female Jacks and Male Plugs



- Threaded screw on housing
- 1mm diameter solder eyelets
- Shield crimp tabs

231159EA/231167EA: With spring strain relief

SALE

Part No.	Mfr. Cross Ref. No.	Description	1	10
109495EA	PJ035PM	Mono female jack 3.5mm hole size	\$.45	\$.40
165729EA	PJ0354	Mono female jack 3.5mm hole size	.69	.59
101151EA	PJ1035	Mono male plug, plastic	.69	.62
147344EA	PJ1035L	Mono male plug, plastic	\$0.69 .59	.53
231159EA	AP-336	Mono male plug, metal	1.25	1.19
231175EA	AP-340	Stereo male plug, plastic	.45	.41
231167EA	AP-343	Stereo male plug, metal	1.79	1.60

We'll match the advertised price of any like product. It's that simple!

"...XM Radio is a service I can wholeheartedly recommend."

—Walter Mossberg, The Wall Street Journal



XM Satellite Base Receiver #226157EA

Just
1.5"
thick!



SALE

See
Jameco.com
for rebate offers!



SKYFi Portable Audio Docking System #226165EA

Pocket satellite radio with 100 crystal clear channels that follow you everywhere; most commercial free!

Imagine being able to choose from 100 channels of music, broadcast news, sports and talk radio...and taking them everywhere you go. With the Delphi XM SKYFi Satellite Radio system and a subscription to XM Satellite Radio*, you'll enjoy 100 channels of entertainment, 35 of them commercial-free, anytime, anywhere.

What do I need?

With this ingenious, modular system, the "brains" are contained in a palm-sized wireless base receiver small enough to slip into your pocket (#226157EF). Just buy one base receiver and use it in any docking station, wherever the location. Plug the Home Dock into the audio input jacks of your home or office stereo. Insert the Vehicle Dock into your car's cassette player; or use the FM Modulator Kit for a wireless car installation. For even more portability, get the self-contained Boom Box/Dock, and you can take your favorite sounds to the beach, the boat, or even up in an airplane. Boom Box/ Dock features two dual-cone speakers, headphone jack, integrated carrying handle, and detachable hi-gain antenna with 20' cable. Powered by AC adapter (included) or 6 D-cell batteries (not included).

Just slip the receiver into a dock...

...and 100 crisp, clear satellite stations, including up to 20 of your favorite presets, are yours at the touch of a button. The receiver's 5-line electric-orange display shows the currently playing song, artist, and more. You can even see what's playing on other channels before you switch. Narrow your search by category for fast navigation. Or use the jog-wheel to scroll through all the channels. Includes remote for the ultimate in home or office listening.

The XM Satellite Radio Broadcast System's signal is beamed from two huge earth-station antennas to its broadcast satellites 22,000 miles above the earth. Ground antennas, or repeaters, boost the signal around geographical and architectural obstacles. In fact, the quality of the XM signal is so good, Popular Science rated it "superb, with good dynamics, crisp frequency response and virtually inaudible distortion." Non-commercial programming for XM Radio is produced at the company's 150,000 square foot broadcast centers in Washington DC, Nashville, and Manhattan. The facilities include 82 studios, 20 production suites, 310 audio workstations and an unsurpassed library of digital recordings.



Dock it in your home.



Dock it in your car.

Part No.	Description	Price
226157EA:	Radio base receiver & remote	\$124.95
4-11/16"W x 1-1/2"D x 2-15/16"H. Requires your choice of docking stations to produce sound.		
226181EA:	Home docking kit	\$64.95
Includes dock, AC power cord, antenna, and audio cable with twin RCA output jacks.		
226165EA:	SKYFi docking system	\$94.95
Includes boom box dock with two speakers, headphone jack, detachable hi-gain antenna and cable, and AC adapter.		
226173EA:	Vehicle docking kit	\$69.99
Works with any vehicle FM stereo system with a cassette player. Includes dock, magnetic roof antenna, universal mounting bracket, and cigarette lighter power adapter.		
226190EA:	Vehicle FM modulator	\$44.95
For a more professional-looking auto installation or those without a vehicle cassette player. Replaces cassette adapter and cigarette lighter adapter for a "wireless" look.		
226202EA:	Antenna extension kit	\$34.95
For improved reception with the Home Docking Kit		

* XM Radio subscription currently priced at \$9.95/mo. Sign up via the Web or by calling toll-free once you activate your new receiver. Receive complete audio instructions via the receiver. Receiver produces sound only with a docking station.

Rock'n'Roll in peace! This headset stifles the grating background sounds!

Collapsible, comfortable, portable and packable; this noise-canceling headset from Sennheiser.

This folding headset from Sennheiser brilliantly reproduces the sounds you want to hear while muting stressful environmental noise. Just flip the switch on the NoiseGard™ console, and grating sounds like traffic, airplanes and urban warfare are instantly hushed by up to 15 dB. Perfect for travel, they fold compactly and slip into a dual compartment padded belt pouch that's roomy enough for both the headset and portable electronics. It works on a simple principle of physics: sound is canceled by anti-sound that's phase-shifted through 180°. Headphone freq. resp.: 10-21,000Hz. Impedance 300 Ohm. Total Harmonic Distortion: 0.1%. Sound pressure level: 106 dB(SPL). 2 AA batteries included. 2-year manufacturer's warranty.



Folds to fit into
included
carrying case.

SALE



Part No.	Description	Price
227088EA	Noise canceling headset	\$129.95

Expandable, great-sounding portable MP3 enjoyment, made affordable from Samsung!

An economical digital music player with top-of-the-line features is now within reach of any budget.

This lightweight, compact 64-megabyte player delivers 60 minutes of your favorite tunes, enhanced by a built-in equalizer with 4 custom presets. This pocket-sized powerhouse features a SmartMedia slot for easy expansion, a backlit display and fast USB connectivity, all at an absolutely unbeatable price.



SALE

Part No.	Description	Price
235459EA	Samsung YEPP MP3 player	\$89.95



Wall-mountable stereo boasts big sound, sleek lines, and zero footprint!

This handsome, all-in-one multimedia stereo creates a "true wall of sound" in your home or office.

This elegantly designed Sanyo stereo system fulfills your audio and aesthetic dreams. You get a stereo amplifier, CD player, cassette deck, digital AM/FM tuner, alarm clock, and two high-quality speakers sculpted into an elegantly sleek work of art. Mount the entire system on the wall for a zero-footprint solution or on a table-top. Leave the speakers attached, or place them up to

12 feet apart for stereo separation. Fill any bedroom, living room, kitchen, bath, office or patio with rich sound.

The large backlit display and 20-key remote-control provides control of the entire system from the comfort of your bed or sofa. Preset as many as 20 FM and 10 AM stations. Wake to your favorite radio program, CD or tape. Includes base/treble control and headphone jack.

Part No.	Description	Price
211318EA	Sanyo slim-profile zero footprint stereo	\$119.95

Organize and maximize your workstation.

Tired of trying to work without enough space to do so in? Free up your desk space with this convenient clip-on mouse platform. No drilling required – clamps on securely to your desk or workstation without damaging the desk. This unit also stores completely below your desk so you don't have to see it when not in use. Includes a cord clip to keep mouse cords tangle free and in position.

Part No.	Description	Price
249105EA	Flexible flashlight	\$9.95



NEW

Please send us your thoughts on products that you would like to see added to our catalog. Please send requests to AtHome@Jameco.com – Thank you!

Enjoy digital music, FM stereo and voice-recording convenience anywhere, anytime!

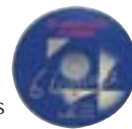
This complete, featherweight USB-ready entertainment center measures 2.75"H x 2.0"W x 0.5" thin, but gives you big sound from multiple sources. Autoscan functionality locks-in your favorite FM stations, and 128 megabytes of upgradeable memory delivers MP3/WMA music with a signal-to-noise ratio of >90 dB. And get this: its built-in digital voice recorder captures up to 8 hours of memos, reminders, lectures or presentations for later review.



Part No.	Description	Price
235029EA	MP3 player/voice recorder with FM headphones	\$139.95

CD, CD-ROM & DVD Cleaner

- Removes accumulated oils, dust, and debris from CD optical lens
- Single brush wet-dry cleaner
- 6-language voice guide instructions



Part No.	Description	Price
228531EA	CD laser lens cleaner	\$9.99

Writes anywhere, even underwater!

Durable and lightweight, our Fisher Space Pens are on all NASA space flights. They perform in any condition – upside down, at any angle, in extreme temperatures, on carbonless paper, or even underwater!

The secret is its unique design of a sealed-pressurized ink cartridge. Fisher



Apollo 11 Coin & Pen Set



Chrome Shuttle Pen

vows an estimated 100 year shelf life. The Apollo XI Coin and Etched Pen Set commemorates our first manned lunar landing – a Fisher Space Pen was there. The Triple Action Pen allows your choice of black or red ink, or a PDA stylus;

all in one. Use your own pen to write anywhere using Fisher Space Pen Refills. Mont Blanc and Cross pens use the specific refills listed. Roller balls by Parker, Waterman, Pelikan, Lamy, Rotring, and Sheaffer use Fisher Space Pen Refills with the included adapters.



Save up to 20%!

Part No.	Description	Price
219395EA	Chrome shuttle pen	Was \$24.99 \$19.99
219408EA	Triple action pen	Was \$34.99 27.99
219387EA	Apollo 11 pen & coin	Was \$69.99 49.95

Pen Refills

219483EA	Mont Blanc med. black	Was \$4.99 3.49
219475EA	Mont Blanc med. blue	Was \$4.99 3.49
219467EA	Cross medium black	Was \$4.99 3.49
219459EA	Cross medium blue	Was \$3.99 2.99
219441EA	Fisher space med. black	Was \$4.99 3.49
219416EA	Fisher space med. blue	Was \$4.99 3.49
219424EA	Fisher space med. red	Was \$4.99 3.49
219432EA	Fisher space med. green	Was \$4.99 3.49

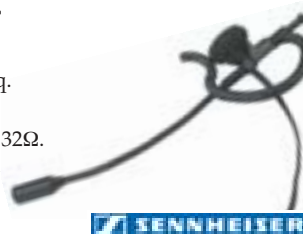
Finally, a Sennheiser cell phone headset. Quality sound at last.

Enjoy cleaner, clearer sound with this lightweight in-the-ear headset.

The first name in headphones introduces their first in-the-ear cell phone headset with the superb sound quality you'd expect from Sennheiser. This headset uses the latest technology for clean, clear sound...then delivers it directly into your ear canal, not outside where it has to compete with background noise. The microphone boom is bendable and won't budge so it will always be in the right position. Earhook slips over either ear. Weight: 0.5 oz.,

Headphone freq. resp.: 20-22,000 Hz. Impedance 32Ω. Omnidirectional microphone freq. resp.: 40-15,000 Hz. Impedance: 1.4kΩ. Sensitivity: 12 mV/Pa. 2.5mm jack fits most mobile phones. Backed by Sennheiser's 2-year warranty.

Part No.	Description	Price
227096EA	Sennheiser cell phone headset ...	\$21.95



Keep this headset on & listen to FM radio in-between calls.

Using your phone all day long? Here's a headset you can keep wearing between calls...because as soon as you hang up the phone, it entertains you with your favorite FM radio station. Great at sporting events! A lightweight clip-on module puts the simple controls at your fingertips. Push the scan button to advance to the next clearstation—no irritating static in-between.

When the phone rings, touch one button to answer the call. Touch it again to end the call. No need to mute the FM—it switches on and off automatically. Works with all phones with a 2.5mm jack.

Part No.	Description	Price
226270EA	Hands-free headset with radio	\$8.95

SALE



Cell phone battery adapters.

With these cell phone battery car adapters, you can extend the power of your battery for the rest of the day by simply plugging the adapter into the cigarette lighter of your vehicle and just like that you have a second source of power while at the same time charging the battery.

Part No.	Description	Price
218747EA	Kyocera DC power cord	\$6.79
218798EA	Samsung DC power cord	6.79
218771EA	Ericsson DC power cord	6.79

SALE



Part No.	Description	Price
218659EA	Motorola DC power cord	\$6.79
218675EA	Nextel DC power cord	6.79
218667EA	Nokia DC power cord	6.79
218712EA	Samsung DC power cord	6.79
218763EA	Motorola DC power cord	9.95

The most brilliant cell phone battery idea under the sun!

Harness the unfailing power of the sun and you'll never be stranded without cellphone power.

Never be without "juice" again. This incredible solar cellphone battery keeps itself charged on nothing more than sunlight. It features an environmentally friendly lithium-ion battery and a photovoltaic (solar)

cell. To charge the battery, just expose the cell to sunlight or bright light. A 15-20 minute charge gives enough talk time for an

Side view attached to phone



emergency call. A full charge takes about 5 hours. Lithium-ion battery charges even faster from your regular AC battery charger, making this the only battery you need to pack. It's a must-have for everyone from business travelers to backpackers.

"I have used your solar battery on my Motorola phone for two-and-a-half years in an offshore environment. It has worked perfectly. I carry it in my backpack and I know that it will work when I need it."

— K. Bullard, National Park Service

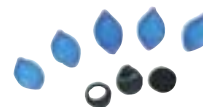
SALE

Part No.	Description	Price
223950EA	Motorola V60 solar battery	\$31.95
223968EA	Nextel I60/I90/I95 solar battery	31.95
223976EA	Nokia 3360/3320 battery	31.95
223984EA	Nokia 3390/3395/3310 battery	31.95

Protecting yourself from cell phone radiation!

Unlike regular headsets, RadFree reduces your exposure to cellphone radiation by 98%.

SALE



Concerned about the risks of cell phone radiation? Ordinary headsets deliver electromagnetic radiation to your head through the electrical wire they use to conduct sound. If you want real protection from cell phone EMR, you want RadFree. Instead of electrical wire, RadFree Airwave technology uses a non-conducting acoustical chamber and tube to deliver crystal clear sound to your ear reducing your exposure to cell phone radiation by 98%. Just speak naturally into the microphone, which includes a mute button. You can move your radiation-emitting phone up to 4 feet away from your head.

Part No.	Description	Price
227168EA	RadFree Airwave 2.5mm headset ...	\$24.95
227109EA	RadFree Airwave for Nokia phones ...	\$24.95

Charge your cell phone from your PC or Mac USB port.

SALE

Comes with 6 different adapters to fit any cell phone.



Cell phone not included

Charge your cellphone without a heavy adapter, cradle, or even a power outlet!

Leave that heavy cell phone charger at home and "juice up" from your computer's USB port. Just plug one end of the 2-1/2' ZipLinq cable into the USB port of your PC, Mac or PDA. Plug the other end into your phone charger jack. In as little as one hour, you're talkin' the talk again. ZipLinq cables are incredibly convenient, because they're light, flexible, and they zip away into a case no wider than a quarter. The 12V and 110V adapters allow you to use your USB-to-Cell phone charger cable with a wall or car outlet.

Part No.	Description	Price
226317EA	USB-to-Cell phone charger cable for Motorola, Siemens, Ericsson & Nokia	\$19.95
226325EA	USB-to-cell phone charger cable for LG Mobile, Sanyo, Samsung & Kyocera ..	16.95
227432EA	12VDC-to-5V USB charger (car outlet)	11.95
227441EA	110 VAC-to-5V USB charger (wall outlet) ...	12.95

More @ www.Jameco.com

That's your TELEPHONE? Wow!

You'll hear it every day when you bring one of these sleek, elegant telephones into your life. They're designed by Jacob Jensen who's won more than 100 international art awards and whose works are displayed at N.Y. MOMA. Reminiscent of the venerable B&O phones, get yours for hundreds less. Practical as they are beautiful, they come with all of the features you want in a telephone, such as

It's not just a phone...it's a statement. And, in spite of their blueblood heritage, these phones are surprisingly affordable.



227125EA



227141EA



227150EA



227133EA

number redial, speed dial and they are even wall mountable. The LCD Speakerphone's 3 line LCD displays caller ID with a memory of your last 66 callers. It has a 77 name/number phonebook, is headset ready and operates in 11 languages!

Part No.	Description	Price
227141EA	Right angle phone.....	\$59.95
227125EA	The Jensen	79.95
227133EA	10-digit LCD display phone	109.95
227150EA	Speaker phone with LCD display	99.95

Never need to miss another call while you're online.



Bright LEDs immediately alert you to an incoming caller. Just pick up the phone, and you're seamlessly connected to your friend or colleague. When your conversation is finished, simply hang up and your modem takes over to resume your online session. Works with fax machines too! In addition to saving missed calls, this convenient little box will save you money, too. No expensive additional line is needed, and you can avoid annoying monthly charges for similar services from your internet service provider. Installation is a breeze. An A/C adaptor is included for power, and with your existing call-waiting service, you'll be ready to attain a new level of peace of mind, right out of the box.

Part No.	Description	Price
234974EA	Internet call waiting alert	\$44.95

Screen your calls without leaving your chair!

Hooked up just like an ordinary Caller-ID box, this next-generation device will announce the number (in English or Spanish!) of the incoming call in a clear, pleasant voice. You can even record up to 50 custom announcements for specific callers, along with two personalized greetings for your special friends or loved ones who call often.

Part No.	Description	Price
234966EA	Voice announce caller ID box	\$74.95

NEW



Get important calls and avoid the disruptions too.

Three of the most useful features you'll ever add to your phone line!

Want to pick up important incoming calls without disrupting your modem connection? or do you need an alternative to picking up annoying calls from telemarketers or fax machines? This handy switch emits tones making pesky telemarketers think you've disconnected your phone line, routes fax calls directly to your fax machine without allowing your phone to ring and more! Now you can pick up calls while your modem is on line, and you only need one phone line!

NEW



Part No.	Description	Price
242780EA	Automatic fax switch	\$99.95

Zip, you're wired. Zip, its gone. Disappearing cable trick.



These thin, flexible cables weigh just half an ounce and roll up like a window shade for manageability?

Don't you hate lugging those heavy, bulky cables around with your laptop? Now, you don't have to. ZipLinq USB and Firewire cables are as light-weight, thin and flexible as a shoelace, and they store themselves tangle-free in a case the size of a quarter. To connect the cable, take a connector in each hand and pull to the length you need, up to 2-1/2'. Ready to roll? Tug gently, and the cable zips neatly into its case like a window shade. Durable ABS housing protects the cable during storage.

Part No.	Description	Price
226405EA	Firewire M 4-pin to firewire 4-pin ...	\$13.49
227424EA	Firewire M 6-pin to firewire 4-pin	15.95
227459EA	Firewire M -pin to firewire 6-pin	14.95
226392EA	USB A to mini USB 5-pin	11.95
226384EA	USB A to mini 4-pin	11.95
226376EA	USB A M to USB F	11.95
226368EA	USB A to USB B	11.95

AT&T Automatic fax switch

This convenient unit screens calls before you answer and routes them to your telephone, answering system, fax or modem automatically. No more answering annoying fax calls or paying the phone company for multiple phone lines. Plus, the fax switch can automatically notify you when an important message or fax arrives by calling your cell phone or pager. And since it supports remote operation, you can change the settings when you're away from your home or office!



Part No.	Product No.	Description	1	10
152004EA	ATT200A	Fax switch ...	\$24.95	\$22.49

Bargain Prices, hurry! Limited quantity of the best color & waterproof pocket GPS.



Was \$499.95
Now
\$299.95



Map Send
Software & 32MB
Memory Card

Quite simply, the Magellan Meridian is the ultimate handheld GPS navigator. In your car, skipping across the water in your boat, strolling in the city, or hiking on the trail, this waterproof wonder with full-color 160x120 pixel backlit display and 3-meter accuracy will make your exact location jump off the screen.

The built-in mapping database features 16MB of cities, highways, landmarks, airports, and waterways in North America. Now, you can go exactly where you want to go with unparalleled ease. Its extra large and bright screen displays your exact location and surroundings, including roads, interstates, parks and other points of interest.

An integrated compass, speedometer and extensive text readouts show you everything you need to know to make your trips safer, easier and a lot more fun.

For only \$99.95 extra, you'll receive both an additional 32MB of memory (16MB more than our biggest competitors) and the MapSend software package that gives you incredibly detailed, street-level mapping capability. In fact, when you get your Meridian receiver, the only thing you won't be able to find is a better deal. We have a limited quantity. Order today.

Part No.	Description	Price
219491EA	Magellan Meridian and software GPS Was \$499.95 Now	\$299.95
219571EA	MapSend software & 32MB memory Was \$149.95 Now	99.95

See our new
low-cost
compass on
page 2.



Get accurate
weather and
navigational
information and
arrive faster
without
unpleasant
surprises.



Mounts easily to your car windshield.



Only
\$99.95

Never get lost or surprised by a storm again.

Mount this precision compass and weather station on your car windshield and hit the road knowing not just where you're heading, but what you're heading into. The holographic LCD panel displays your direction, inside and outside temperature and barometric pressure. Press a button to see altitude and a weather forecast of sun, clouds or rain. If outside temperatures dip to 35°, a flashing "Ice Alert" warns you of skid conditions. Set a bearing

point, and the compass warns if you veer off-course. Activates and deactivates automatically to save battery life. Backlight comes on automatically after dark. Includes suction mounting bracket, 3V long-life lithium battery and 12V DC adapter (for emergency use with car lighter outlet). 2-year manufacturer's warranty.

Part No.	Description	Was \$149.95	Price
222316EA	Compass & weather forecaster ...		\$99.95



Military-precision compass goes from traffic to trail automatically.

Go from backroads to backpacking with confidence. The All-in-One Compass switches modes automatically.

Ingenuous design makes the All-in-One Compass two precision navigational instruments in one. In the cradle, it reads direction vertically for driving. Lifted out and held flat, it automatically switches to handheld mode for hiking. Car and hand icons indicate mode, so you can't make a mistake. Magnetic sensor

technology developed for the military and used by GM, Ford and Chrysler assures accuracy. Holographic display is easy to read in bright or low light. Pushbutton backlight lets you read in pitch blackness. Runs on two AAA batteries or 12-volt car adapter, both included. Auto turn-off conserves battery life.

Size: 2.5"L x 2.5"W x 1"H.

Part No.	Description	Weight	Price
222324EA	Hikers and drivers all-in-one compass	0.72 lbs.	\$54.95

Jump-start your car or fix a flat anywhere, without a stranger's help.

A test meter shows the condition of your battery, so you won't waste time if it's not the problem.

Worried about getting stranded on the road? Not when you pack your self-contained battery starter and air compressor! Just clamp the cables onto your battery terminals and start your car. Pump up a flat with the 260-PSI air compressor and drive to a service station to get it fixed. No phone calls. No waiting. No putting yourself at the mercy of strangers. But that's not all. You also get a built-in worklight and 12VDC car-type outlet that can power TVs, coolers and cellphones for up to 50 hours. Recharge the jump-starter from an AC outlet or your car's cigarette lighter using the AC and DC adapters (included). Output: 12VDC, 900 amps peak, 400 amps starting power.

Part No.	Description	Price
223888EA	Jump starter with 260 PSI air compressor	\$49.95



3-digit tire pressure gauge ensures safer driving.

Maintain manufacturer's suggested tire pressure level for safer driving with this digital tire pressure gauge. Quick and simple to use, it provides accurate P.S.I. or



bar readings of tire pressure that helps reduce tire wear and improve fuel consumption. Complete with 2 x LR-44 batteries, the average battery life of this tire pressure gauge is 3,000 measurements.

Buy 3 SAVE \$6.00

Part No.	Description	1	3
237731EA	Digital tire pressure gauge	\$6.99	\$4.99



Open virtually any garage door, while barely opening your wallet.

At this price you can afford to give one to each of the kids, and put one conveniently in each car! Programmable for virtually any existing garage door opener (see below), this one-button wonder augments your current set of garage-door remotes. A long-lasting, replaceable 12-volt battery is included.

Works with the following major brands and models: Genie #AR85 Series, Sears, Stanley, Chamberlain, Craftsman, Linear, Moore-O-Matic, Multi-Code, Wayne Dalton, Lift-Master and Master Mechanic.

Part No.	Description	Price
235539EA	Universal garage door opener	\$19.95

Expect the unexpected with this road-ready kit.



Bright safety flashers easily alert others drivers.

NEW

Don't leave home without it!

One of these kits should have a place in every vehicle you own. In a road emergency, you'll have a powerful flashlight and a full set of high-quality tools, all ready for repair work. Plus, bright safety flashers will let other drivers know to steer clear, and alert emergency vehicles to your location. Plug-in powered by your car's 12-volt battery, or by a back-up set of C batteries.

Part No.	Description	Price
235109EA	Auto emergency kit	\$24.95

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

Kiss flat-tire worries goodbye!

With these two roadside helpers in your trunk, you can finally have portable peace of mind. Both the powerful impact wrench and the mini air compressor plug directly into the 12-volt lighter socket in your car. With its full set of bits, sockets and adaptors, the wrench will loosen the crankiest lug nuts in short order. The air compressor will keep your tires, including the spare, pumped for optimal performance, and can keep bike tires, balls, camping beds and pool/beach inflatables in top form, as well.

Part No.	Description	Price
235441EA	Wrench with air compressor	\$29.95



Pouch in the back side for extra storage



Organization complete in one hide-away package.

No more clutter reaching for cellphones between car seats or misplaced sunglasses in your automobile. With this visor organizer, everything is within reach and organized. Holds 12 compact discs, pair of sunglasses, and cellphone. Easily attaches to your automobile's sun visor by Velcro.

• Size: 13"L x 6"W

Part No.	Description	Price
238932EA	CD visor organizer	\$11.95

Fresh air in the worst traffic.

If you think the air is bad outside during your commute, it could be even worse inside your car. With the windows rolled up, your in-car environment may be concentrating the pollutants. Chances are, you and your car need a healthy shot of pure, fresh ionized air. Simply plug this compact, self-contained device into your cigarette lighter and it goes to work immediately, removing dust, cigarette

smoke, odors and even airborne bacteria to create a clearer, healthier indoor atmosphere. Order one today, and see how billions of negative ions can have a positive effect on you and your health.



Part No.	Description	Price
219352EA	Auto air purifier & ionizer	\$19.95

The 10-second test that could prevent a lifetime of regret!

No one gets behind the wheel intending to wreck lives. But each year thousands do just that when they misjudge the amount of alcohol in their system. Now there's a simple way to make sure it doesn't happen to you or those you care about.* Alc Alert quickly and discreetly checks blood alcohol level in less than 10 seconds. Just blow as if cooling soup on a spoon. At the sound of 3 beeps, stop and read the results. It's that easy. Buy one for yourself. Give them to everyone you cherish. Makes a thoughtful gift. Party guests actually have fun testing themselves. Gas sensor digital technology measures blood alcohol level (BAC) from .0% to .12%. The backlit display can be read in a dark car. Runs on 2 AAA batteries (included). Size: 3.5" x 1.25" x 0.5".

Part No.	Description	Price
222332EA	Alc Alert breath alcohol detector	\$49.95

* No device, no matter how sensitive, can substitute for common sense. If you think your ability to drive may be impaired even slightly, no matter what the test results show—don't drive.

Best Seller

Alc Alert displays blood alcohol level, showing when it's not safe to drive.*

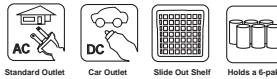


Just breath and get results in seconds.

Mini cooler/warmer works almost anywhere!



Don't bother with the nasty office fridge. Keep a six-pack, your lunch, a snack, or anything else cool and at hand; and at optimal refreshment temperature. Our handy, stylish and convenient mini fridge and warmer is high-tech and CFC-free. Cools 20-25°F from the ambient temperature or keeps food warm at up to a max of 154°F. The fridge handles a big 4-liter capacity to keep an ample supply of provisions fresh and ready to serve. Auto-shutoff and restart prevents problems.



Part No.	Description	Price
219310EA	Mini cooler & warmer	\$74.95

Attach it right to your keychain



Breathalyzer refills

Put greater safety on your key ring!

NEW

Everyone should have one of these handy checkers on every set of keys. Just blow into the device for 12 seconds, and special crystals inside will turn blue if your blood alcohol level is .08% or above. Infinite shelf life and convenient refill cartridges mean it's always ready to help you stay safe behind the wheel.

Part No.	Description	Price
237294EA	Breathalyzer keychains (pack of 2)	\$21.95
237307EA	Breathalyzer refills (pack of 5)	19.95

More products

@ www.Jameco.com



Bushnell binoculars for less than \$20? Seeing is believing!

Convenient, portable and simple to use, let these compact, factory remanufactured binoculars bring you closer to the action. Insta®-Focus delivers crystal-clear, 12X images while you view. Fully coated lenses and tough rubber armor promise many seasons of trouble-free use. Includes carrying case and neck strap.

Part No.	Description	Price
235571EA	Bushnell sport binoculars	\$15.95

A zoom with a view.

Whether you're a sports fan, birdwatcher or amateur PI, these 10x42 binoculars put you right in the middle of the action. They're waterproof and fog-proof for clear, all-weather viewing, and tough rubber armor helps withstand the rigors of all-purpose use. Plus, the zoom-in feature lets you easily adjust for the perfect view. Refurbished to like-new factory specs.

Part No.	Description	Price
236021EA	Bausch & Lomb zoom binoculars	\$99.95



See in total darkness. Infrared Monocular gives you an edge.

Like the infrared goggles worn by the U.S. military, Bushnell Night Vision lets you see them, but they can't see you.



See in the dark without disturbing or alerting others. Night Vision Monocular uses military-grade image intensification technology to let you see clearly for up to 300 feet, even in pitch blackness. It's perfect for campers, hunters, hikers and wildlife enthusiasts... essential for surveillance and search-and-rescue work. Night Vision collects and amplifies the minute amount of light that exists even in what we perceive as pitch black. It converts the light into electrons that strike a phosphor screen, producing a detailed image just the way your TV does. High-speed f1.5 objective lens with 2.4X image magnification. FOV of 79 feet at 100 yards. Weighs 17 oz. with 2 AA batteries (included). Comes with roomy padded carry case with adjustable shoulder strap. 1-year manufacturer's warranty.

Part No.	Description	Price
219694EA	Night vision monocular & case ..	\$199.00

H2O-proof binoculars offer ringside seating through rain, sea and even spilled beer.



The only binoculars you need to own, they'll take you through rain, sleet, snow, & wild weekends.

A great gift idea for the outdoor or concert enthusiast at a fantastic price. These 8X compact Bushnell binoculars are completely impervious to wet weather, boating activities, water sports and even the occasional sailing beverage. And at this price, they're a tremendous value even if you live in the Sahara. Rubber armoring and O-rings seal out moisture. Nitrogen purging eliminates fogging, even in wet weather. Multi-coated optics ensure durability, clarity and reduced glare. Roll-down eyecups accommodate glasses. Offers a center focus, 25mm objective lens, and 370' field-of-view at 1000 yards.

Includes: Carry case with belt loop, neck strap and lens cloth.

Part No.	Description	Price
220409EA	Bushnell H2O binoculars	\$34.95

See only the controls you need, for each of 8 separate devices!

All remotes change channels, but this one changes itself!

The Kameleon 8 revolutionizes remote control as it simplifies your leisure life. Forget the maze of confusing buttons and complicated keystrokes that make some universal remotes a burden. With a touch, this unique controller transforms itself into the perfect remote for each of your components. For example, choose to control your DVD player, and the cool backlit Kameleon 8 display shows only DVD controls. And it offers the same easy, crystal-clear functionality for up to 8 devices.

Pre-programmed with the world's largest code library, this super remote even guides you interactively through its quick and painless set-up routine. Whatever your remote control needs, the Kameleon 8 will be a change for the better.

Part No.	Description	Price
235521EA	Kameleon 8™ universal remote control	\$99.95



Just say the word, and watch your entertainment system respond.

Speak one command into your 8 device rechargeable remote control on the table beside you, and it will power up your TV and VCR, turn to channel 3 and press play! Recognizes up to 50 macro voice commands and responds to 4 different multi-lingual voices. Picture-in-picture, shuffle and disc change features make sure you'll never have to get out of your easy chair again.

Part No.	Description	Price
236048EA	8-in-1 voice remote	\$79.95



Hidden keyboard panel slides out to give you more options



Star Trek™ fans rejoice!

Now you can control up to 4 home theater devices with this realistic replica from the original spaced-out series. Distinctive light and sound effects will accompany your IR commands as you zap your way through the universe of video entertainment. Order now, and enter the next generation of remote control!

Part No.	Description	Price
236030EA	Phaser universal remote	\$39.95



Total control of your remote devices, anywhere in your house!

Extend the power of your favorite remotes (beyond line-of-sight!) with this innovative, no-fuss solution. Place the N size battery into the AA size transmitter, place the transmitter into your existing remote control unit, and now you can control your electronics from rooms away. Infrared signals are converted to RF, and a compact receiver unit in the room with your electronics sends the commands to your system. And this new level of control is as easy as changing a battery in your remote!

Part No.	Description	Price
235512EA	IR to RF remote extender	\$59.95



Ideal for Cable and Direct TV Customers!



Water alarm prevents costly damage.

This handy little unit alerts users within hearing range when water has reached it's desired level. Be prepared for leaks or overflows in the bath, kitchen, laundry, computer room, just about anywhere there is a potential for leaks. Just place the sensor at the lowest point of the surface where water collects. The alarm will sound if water bridges between the two contacts. Ideal for unattended filling of tubs, pools and/or spas. Use the suction cup to attach the sensor to any smooth vertical surface. The buzzer will sound when the water reaches both metal contacts on the sensor.

Part No.	Description	Price
239370EA	Water leak alarm	\$12.99



Suction cup adheres to any smooth vertical surface.

Wireless weather station does everything but provide a scarf or umbrella.

This multi-function digital weather station is a great gift for the weatherwatcher who likes to know everything—including the future and the temperature "down below." It's an indoor/outdoor wireless thermometer, graphical weather forecaster, lighted alarm clock with snooze alarm, day/date calendar, audible temperature alarm. It's even a pool and pond thermometer.

The outdoor sensor transmits up to 100' through walls and fences. Slide the sensor out of its bracket, plug in the 10' waterproof probe, and check the temperature of your pool or pond. A flashing storm alert warns of severe weather ahead. Programmable audible high/low temperature alerts help prevent household catastrophes. Readings displayed in C° or F°. Base uses 2 AA batteries (included). Remote uses 2 AAA batteries (included).

This weather station can wake you when you're sleeping, warn you when temperatures reach danger zones, and tell you when your tropical fish are shivering.



Part No.	Description	Price
227117EA	Wireless weather station Was \$94.95	\$49.95

PowerFilm. Flexible Thin Film Solar Modules

Wireless Electronics Series

The wireless electronics series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. These modules are lightweight, paper thin, and durable. With their ultra-film profile, they are easily integrated with devices for solar recharging or direct powering. Specifically developed to recharge AA, AAA, plus 6 and 12 volt batteries.



228064EA

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing	
				Inches	mm	1	10
227985EA	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	\$3.89	\$3.49
227993EA	TX 3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	2.89	2.59
171061EA	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.89	5.29
228013EA	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	8.89	7.99
228021EA	MPT3.6-150	3.6	100	2.9 x 5.9 x .01	74 x 150 x 0.2	17.89	15.99
228030EA	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.89	5.29
228048EA	MPT4.8-75	4.8	50	3.7 x 3.0 x .01	97 x 75 x 0.2	11.89	10.69
228056EA	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	22.89	20.59
228064EA	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	13.89	12.49
228072EA	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	27.89	24.99
228081EA	MP7.2-75	7.2	100	10.0 x 3.0 x .02	253 x 75 x 0.6	24.89	22.39
228099EA	MP7.2-150	7.2	200	10.0 x 5.9 x .02	253 x 150 x 0.6	39.89	37.99
228101EA	MPT15-75	15.4	50	10.0 x 3.0 x .02	253 x 75 x 0.6	26.89	24.29
228110EA	MPT15-150	15.4	100	10.0 x 5.9 x .02	253 x 150 x 0.6	44.89	42.99

Remote Control Aircraft Series

Designed to be easily integrated with Remote Control Aircraft or anywhere weight is critical. These modules are very lightweight and can be soldered to from the back of the module via the extended copper tape, and have an extra edge seal for protection.



228144EA/228152EA

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing	
				Inches	mm	1	10
228128EA	RC7.2-37	7.2	50	10.6 x 2.2 x .01	270 x 55 x 0.2	\$16.89	\$15.29
228136EA	RC7.2-37PSA*	7.2	50	10.6 x 2.2 x .01	270 x 55 x 0.2	19.39	17.49
228144EA	RC7.2-75	7.2	100	10.6 x 3.5 x .01	270 x 90 x 0.2	29.89	26.99
228152EA	RC7.2-75PSA*	7.2	100	10.6 x 3.5 x .01	270 x 90 x 0.2	32.89	29.79

* PSA = Pressure Sensitive Adhesive

End laser doldrums. This pointer really points... and underlines.



Make your point more creatively with this 3-shape laser pointer. It's a sure-cure for the "not-another-presentation" blues.

Watch your audience take notice when your standard laser dot becomes a laser arrow or even a laser underline. Just twist the head of this powerful pointer, and the beam changes shape. Use the arrow to point to fine details in a photograph. Use the underline to emphasize text. The pointer features a solid brass housing with matte black finish and pocket clip. 2 AAA batteries (included) provide up to 3 hours of continuous use. Plastic gift case and 2-year manufacturer's warranty also included.



Choose from three shapes

Part No.	Description	1	5
223722EA	Laser pointer	\$69.95	\$65.95

They yawned when I pulled it out –But when I switched it on...



Create all different shapes and sizes.

Why settle for a humdrum laser pointer? Get this one and wake up the crowd. Yes, it does everyday "pointer-duty" with the best of them. But flip a switch, and it goes nuts—leaping, spiraling, swirling. The secret? An internal mirror mounted on a tiny spring that "springs" with your slightest movement. Think you can hold steady enough to stop it? Go ahead and try. Range: pointer mode – 500 yards; lightshow mode – 30 yards. Wavelength: 650nm. Power: <5mW. Class IIIa. 2-year manufacturer's warranty. Includes neck strap and batteries.

Part No.	Description	1	5
223714EA	Black case laser	\$29.95	\$25.95
223706EA	Red case laser	29.95	25.95

Illuminate the heavens...or just your presentation 20 football fields away.



Ultra-intense green beam is much brighter, goes much farther and is easier on the eyes than standard red lasers.



Even the sleepiest audience will sit up and salute when you whip out a laser pointer that's green, not red...and so bright, you could be standing nearly half a mile away. Using a wavelength closely matched to the highest sensitivity of the human eye and built with cutting-edge crystal

Glass-Lens Red Laser Diode and Line Generator

133292EA: Laser Diode

Class IIIa Laser Product

This lens design uses 3-element glass to collect almost all the power from the laser diode resulting in a brighter spot than many typical laser applications.

- Operating voltage: 4.0–6.0VDC (recommend P/N 112070EA, pg 39)
- Maximum output: 4mW
- Beam size at 7m: oval – 5mm x 8mm
- Wavelength: 660nm
- Beam divergence: 0.2mrad
- Green LED indicator
- Module size: 2.0"L x 0.5"W



133292EA

134148EA: 60° Line Generating Lens

- Adjustable focus range: 50 cm to ∞
- Back focal length: 1.5mm • Focal length: 8.0mm
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Fan angle: 60° • Length at 1 meter distance: 1.7 m



134148EA

Part No.	Description	1	10
133292EA	Glass laser diode	\$44.95	\$39.95
134148EA	60° lens	12.95	11.49

Laser Diode Module

Class IIIa Laser Product

- Operates on 3VDC @ <5mW
- 670nm wavelength
- Beam diameter: 3.2mm
- Working distance: over 50 meters/yards (daylight), 200 meters/yards (dark)
- Size: 0.9"L x 0.3"Dia. • One-year warranty



Part No.	Description	1	10	25
131203EA	Laser module, brass	\$44.95	\$40.49	\$36.45

Laser Diode and Driver

182932EA: Laser Diode

Class IIIa Laser Product

- Optical output power: <5mW maximum
- Operating current: 30mA
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- 5.6mm packaging size
- Beam divergence: 11° from center

182932EA

161736EA: Laser driver w/ regulator

- Input voltage: 2.6-6VDC • Input current: 40mA



Part No.	Description	1	10
182932EA	650nm laser diode	\$11.95	\$10.79
161736EA	Laser driver	7.95	6.95

vellman Solar Cells

The perfect solar cells for students and experimenters in these rugged cases.

- Connection: lead

200221EA

200221EA: 2V @ 200mA 215319EA: 3V @ 100mA
215327EA: 6V @ 200mA

Part No.	Product No.	Size (LxW)	1	10
200221EA	SOL4	3.0" x 3.7"	\$8.99	\$7.99
215319EA	4-3.0-100	3.8" x 2.5"	14.29	12.89
215327EA	4-6.0-50	3.8" x 2.5"	15.79	14.39

technology, this laser projects a green beam so powerful you can see it against a clear sky at night. You won't believe how bright it is. Metal gift box, clip and 2 AAA batteries included. Power output <5mW. Wavelength: 532nm. 90-day mfg. warranty.

Part No.	Description	Price
223731EA	Green laser pointer	\$199.95

Power and Motor

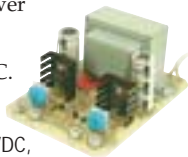
Dual Adjustable Regulated Power Supply ■ 48-piece kit

Build a dual adjustable power supply for your circuits. Outputs positive-negative voltages from ± 5 to ± 15 VDC.

- 120VAC input
- Adjustable positive and negative supplies ± 5 to ± 15 VDC, 175mA – 750mA per supply
- LED on indicator • PC board construction
- Dimensions: 5.1"L x 3.5"W x 2.0"H
- Weight: 2.1 lbs.

Includes: Components and hardware

Part No.	Description	1	10
20626EA	JE215 power supply kit	\$22.95	\$20.49

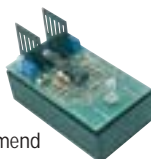


DC Motor Speed Control ■ 35-piece kit

- This kit uses Pulse Width Modulation to vary the speed of a DC motor & maintain torque
- For motors up to 100VDC/5A max.
- Dimensions: 3.6"L x 2.3"W x 1.2"H

Requires: 5-16VDC supply (recommend P/N 114825EA, see website)

Part No.	Description	1	10
127829EA	Motor control kit	\$19.95	\$17.95



Unipolar Stepper Motor Driver ■ 29-piece kit

- Will drive unipolar stepper motors rated up to 6-30VDC @ 1.25A
- Onboard 5VDC regulator
- Drives 5, 6 or 8 lead unipolar stepper motors
- Dimensions: 2.6"L x 1.9"W x 1.0"H

Part No.	Description	1	10
139109EA	Stepper motor kit	\$29.95	\$26.95



DC to Pulse Width Modulator ▲ 40-piece kit

The circuit converts a DC voltage into a series of pulses, such that the pulse duration is directly proportional to the value of the DC voltage.

- PWM range: 0 to 100%
- PWM frequency: 100Hz to 5kHz (adjustable)
- Operating voltage: 8 to 35VDC
- Min. consumption: 35mA
- Max. output current: 6.5A
- Efficiency: better than 90% at full load
- Adjustable sensitivity: 2.5 to 35VDC
- Dimensions: 3.3"L x 1.9"W x 1.8"H • Weight: 0.5 lbs.

Part No.	Description	1	10
120539EA	K8004 modulator kit	\$22.95	\$20.49



Lead Acid Battery Charger Kit

For charging and maintaining both open and sealed type 6V or 12V lead-acid batteries. Can be hooked-up to the unit for an indefinite time, and will be kept in optimal condition. Selectable battery type and charge current, while the charging process is fully automatic. Requires a 18V/25VA transformer (not included; P/N 149956EA see web)

Part No.	Product No.	Charge Current	PCB Dimensions	Price
239521EA	K8012	0.3 or 1 amp (selectable)	3.8"L x 5.5"W x 1.6"H	\$39.95



Distance and LED

velleman

Parking Radar ■ 55-piece kit

Parking in tight places can be difficult, but this unit can tell you when you have come within an adjustable preset distance of the object behind you.

- Transmitter frequency: 40kHz
- Detection range: 5cm – 1.5m; angle: 5°
- PCB size: base (4.9"L x 1.9"W) sensor (3.8"L x 1.1"W)

Requires: 10-15VDC @ 16mA max (recommend P/N 100095EA, see website) or auto power plug (recommend P/N 115001EA, see website)

Part No.	Description	Price
129120EA	K3502 parking radar kit Was \$44.95	\$39.95



SALE

Senix Distance Sensor Modules

Sends out a sound wave 20 times per second and calculates the distance based on the time differential between send and receive signals. The distance is represented by an output voltage from 0 to 10VDC (P/N 134105EA) or RS-232 signal (P/N 151482EA).

- Sensing range: 4" to 60"
- Sensor diameter: 1.8"
- Board size: 2.8"L x 1.8"W x 0.9"H
- One-year warranty

Requires: 15 to 24VDC @ 40mA (not included), recommend P/N 114825EA, see website

134105EA:

- Each 1VDC increment = 5.6" (e.g.: 1VDC output = 9.6")
- Output voltage: 0-10VDC
- Weight: 0.2 lbs.

151482EA: • RS-232 output • Weight: 1.0

Includes: Disk and computer cable

Part No.	Description	1	10
134105EA	Sensor – voltage output ..	\$159.95	\$143.95
151482EA	Sensor – RS-232 output	179.95	161.95



134105EA



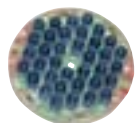
151482EA

IR LED Illuminator ● 41-piece kit

- Improve low-light camcorder and CCD camera images without visible light
- 36 high powered infrared LEDs
- At 24" the beam is approximately 3.5" across
- Dimension: 2" diameter

Requires: 12-15VDC power supply (recommend P/N 114825EA, see website)

Part No.	Description	1	10
157964EA	IR Illuminator kit	\$16.95	\$15.29



Ideal for CCD Cameras

Test & Measurement



Vector 2X Compass Module

- 2° accuracy, 1° resolution
- 3-wire serial output format
- Hard iron calibration
- 5Hz sampling rate
- Pin selectable BCD or binary output format

Requires: Power supply 5V @ 10mA (recommend P/N 112070EA, see website)

Part No.	Description	1	10
126703EA	Vector 2X module	\$49.95	\$44.95



Accelerometer Evaluation Boards

Dual Axis

Evaluation board for the ADXL202, dual axis, 2g accelerometer.

Crossbow



177308EA

177308EA: features RS-232 interface to connect to PC serial ports. Also includes software to display real time acceleration data.

Part No.	Product No.	Description	1	10
177287EA	ADXL202EB	Dual axis	\$59.95	\$53.95
177308EA	ADXL202EB-232	w/ RS-232	159.95	144.95

Function Generator ■ 21-piece kit

Sine, Triangle and Square Wave

Great for prototyping electronic circuits. Produces waveforms at frequencies continuously variable from 1Hz to 100kHz.

- Dimensions: 4.1"L x 1.5"W

Requires: 12VDC supply or ± 6 VDC split supply (recommend P/N 20626EA, top left)

Part No.	Description	1	10
20685EA	JE2206 function generator kit	\$24.95	\$22.95



Transmitter & Receiver

velleman

RF Code Lock Transmitter and Receivers ▲

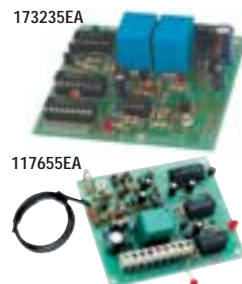
- Use for car alarms, garage doors, door locks, lighting control, etc.
- Over 8000 selectable codes
- Use several transmitters with one receiver
- Receivers feature relay output (10A change-over or pulse contact)
- Range: 100 ft.

117647EA Transmitter: use with P/N 173235EA & 117655EA • 29 piece kit • Weight: 0.3 lbs.

173235EA / 117655EA 2 & 1 Channel Receiver
• 75 piece kit • Weight: 0.5 lbs.

Requires: Transmitter: 12V battery type V23G; receivers: 12-16VDC @ 100mA (recommend P/N 100095EA, see website)

Part No.	Description	1	10
117647EA	K6706 2-ch transmitter (RF) kit	\$16.95	\$15.25
173235EA	K6727 2-ch receiver (RF) kit	39.95	35.95
117655EA	K6707A 1-ch receiver (RF) kit ...	29.95	26.99



117655EA

Audio and Amplifier Kits

FM Stereo Transmitter Mini

■ 37-piece kit

Run your own FM radio station! Plug any stereo signal into this unit and it will be transmitted to any FM radio. Tuneable from 76-108MHz. Plug in a CD player or tape deck and you have a wireless link to an FM radio within 200 feet. Clarity is approximately 40dB stereo separation.

- Dimensions: 2.7"L x 2.0"W

Requires: 9VDC power supply (recommend P/N 151095EA, pg 34)

Part No.	Description	1	10
151239EA	FMST-100 stereo kit	\$29.95	\$26.95

30-Watt Stereo

Power Amplifier ■ 38-piece kit

General purpose stereo amp for audio applications.

- RMS output: dual 15W @ 4Ω or dual 10W @ 8Ω
- Frequency bandwidth: 7Hz to 60kHz (-3dB) • Separation: 70dB
- Supply voltage: 24VCT @ 2A (recommend P/N 101864EA, pg 36) • Dimensions: 2.8"L x 2.0"W

Part No.	Description	1	10
129138EA	K4003 Stereo power amp. kit	\$29.95	\$26.95

Universal Mono

Pre-Amplifier ■ 17-piece kit

For audio applications with insufficient input signal.

- Output impedance: 1kΩ
- Max. input signal: 40mV
- Frequency range: 20Hz - 20kHz +/-3dB
- Adjustable output level: 40dB max.
- Dimensions: 1.2"L x 1.8"W

Requires: 10/30VDC @ 10mA power supply (recommend P/N 20626EA, pg 99)

Part No.	Description	1	10
117612EA	K1803 Pre-amplifier kit	\$8.95	\$7.95

7-Watt Amplifier

■ 22-piece kit

- Music output power: 7W/4Ω
- RMS output: 3.5W/4Ω & 2W/8Ω
- Harmonic distortion: 0.05% (1W/1kHz)
- Frequency response: 20 to 20kHz (-3dB)
- Short circuit/overload protection
- Dimensions: 2.2"L x 1.4"W

Requires: 15VDC (8-18VDC) @ 500mA power supply (recommend P/N 155803EA, pg 40); speakers

Part No.	Description	1	10
127255EA	K4001 Amplifier kit	\$13.95	\$12.49

Parallax's "Stamps In Class" Series Kits

Enabling Students to "Micro-Control" the World

Learn BASIC Stamp programming essentials from the experts. Each kit combines an educational book with the components needed to cover robotics, process control and microcontroller interfacing.

Robotics

Build a BOE-BOT

by adding a chassis, servo motors, power supply, and proximity sensor to your Board of Education (below). Experiments cover basic programming and servo control, sensor interfacing using an infrared LED and receiver, light following, and communication between BOE-BOTS.

- Experience: moderate • 84 piece kit with book

Requires: BS2 starter kit (P/N 140071EA, see website)

Part No.	Parallax No.	Price
170131EA	28154	\$134.95

"Board of Education"

The BOE was designed in coordination with Parallax's educational customers to teach microcontroller programming and interfacing.

- Mechanically interlocked power supply to prevent dual connection of wall-pack and 9-volt battery
- DB9 connector for BS2-IC programming and serial communication during run-time
- P0 - P15 I/O pins, Vdd and Vss connections brought adjacent to 2" x 1-3/8" breadboard area
- Traces on top of the board show connections between BS2-IC and breadboard connections

Includes: Set of ten 10 color-coded 22 gauge wires

Part No.	Parallax No.	1	10
162536EA	28150	\$54.95	\$49.95
202331EA	BS2P40 adapter	34.95	34.95

BASIC Stamp 2P Modules

In addition to the BS2-SX (see web) features, includes new commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.

- RAM size: 38 bytes
- Program execution speed: 12,000 instructions/sec.
- Scratch pad RAM: 128 bytes
- Program size: 8 x 2k bytes, 4,000 instructions
- Current draw @ 5V: 40mA run; 400µA sleep
- 184911EA: • Number of I/O pins: 16 + 2 serial
- 184920EA: • Number of I/O pins: 32 + 2 serial

Part No.	Parallax No.	1	10
184911EA	BS2P24-IC 24-pin	\$78.95	\$71.95
184920EA	BS2P40-IC 40-pin	98.95	89.95

BS2P Professional Starter Kit

The kit includes a selection of components and ready-to-run source code that will help master some of the exciting new features of the BSP2.

Includes: Programming manual, BS2P demo board, BS2P-24 microcontroller, DB9 (serial) programming cable, PCF8583 chip, 32.678kHz crystal, 24LC32 serial EEPROM, DS1822 thermometer, (3) 4.7K resistor, jumper wires.

Part No.	Parallax No.	Description	Price	Part No.	Parallax No.	Description	Price
202323EA	27235 kit	BS2P professional kit	\$194.95	202331EA	BS2P40	BS2P40 adapter	\$34.95

PARALLAX BASIC Controllers and Engineering Modules

BASIC Stamps



BASIC Stamps are small computers using a variation of BASIC to control execution of many applications. The BS1-IC has 8 I/O lines, while the BS2-IC has 16 I/O lines which can be connected directly to buttons, LEDs, registers, and many other TTL level devices. Each allows you to store data in the EEPROM before downloading a BASIC program.

Specifications:	127693EA	130892EA
EEPROM	256 bytes	2048 bytes
RAM	16 bytes	32 bytes
Cur. Draw @ 5V	2mA run/20µA	8mA run/100µA
Microcontroller	PIC16C56	PIC16C57
Program speed	2000/sec.	4000/sec.
# of I/O Pins	8	16 + 2 serial
Package	14-pin SIP	24-pin DIP

140071EA: BASIC Stamp®2 Starter Kit w/ BS2-IC (27203EA)

Includes the super carrier board, software, manual and programming cable. BASIC Stamp 2 can be connected directly to buttons, LEDs, registers and many other TTL devices.

Part No.	Parallax No.	Wt. (lbs.)	1	10
127693EA	BS1-IC	0.01	\$33.95	\$32.29
130892EA	BS2-IC	0.01 Was \$48.95	45.95	41.95
140071EA	27203 Kit	1.9 Was \$147.95	139.95	139.95

Stamp Works

Go beyond theory, into a well-written collection of 32 experiments that will teach you first class BASIC Stamp programming. Learn to get the most out of the BASIC Stamp & increase its versatility by connecting to active & passive components.



Part No.	Parallax No.	Price
184946EA	27297	\$348.95

BASIC Stamp Prototyping Boards

Optional boards for BS1-IC, BS2-IC and BS2SX-IC Stamps.

- Easy use of Stamp with prototyping area, 9-volt battery clips, I/O header, reset button, and programming connector

130921EA: Use w/ P/N 130892EA, left

164726EA: Use w/ P/N 127693EA and 130892EA

Part No.	Parallax No.	1	10
130921EA	27120	\$27.95	\$24.95
164726EA	27130	48.95	46.55



164726EA



Robotic Arm Trainer

▲ 109-piece kit

Five Axes of Motion

Test your motor skills as you build and control the arm. This unit can be commanded or instructed through its five-switch wired controller with lights to grab, release, lift, lower, rotate wrist, and pivot sideways.

- Max. length outwards: 14.2"
- Max. height upwards: 20.1"
- Max. lifting capacity: 4.6 oz.
- Shoulder movement @ 120°
- Elbow moving range @ 135°
- Grip opens to 2" wide
- Wrist rotation clockwise or counter clockwise @ 340°
- Rotates left to right at the base @ 350°

Requires: 4 D batteries (not included)

Part No.	Description	Price
157366EA	Robotic arm kit (unassembled)	\$74.95
159345EA	Robotic controller software (assembled)	84.95



Line Tracking Robot

▲ 134-piece kit

Watch as this robot follows a black line you specify. Utilizes infrared light to detect the line and control direction. This educational kit utilizes the same line follow principle of many industrial robots.

• Dimensions: 12.0"L x 7.0"W x 3.5"H • Wt.: 1.1 Ins.

Part No.	Description	Price
140839EA	Line tracker kit	\$49.95



Flex Sensor

- Nominal resistance: 10kΩ
- Max. resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Description	1	10
150551EA	Flex sensor	\$12.95	\$11.65

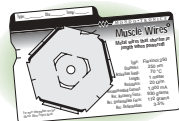


MONDO•TRONICS Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.

• Length: 1 meter

How it works... Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract and raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.



Part No.	Desc.	Linear Wire Dia. (microns)	Typical Resistance (ohm/m)	Deform Current (mA)	Recovery Weight* (grams)	Weight* (grams)	Typical Rate**	Pricing	
								1	10
141321EA	100LT	100	150	180	28	150	33	\$15.95	\$14.49
141874EA	150LT	150	50	400	62	330	20	16.95	15.29
160055EA	375LT	375	8	2750	393	2000	4	19.95	17.95

* Multiply by 0.0098 to get force in Newtons ** Cycles per minute, in still air, at 20° Centigrade

8-Pitch Gears and Gear Set

- Works with DC motors with 0.08" shaft diameter
- Heavy-duty plastic construction • Pitch: 0.125"
- 162392EA: 0.15" bore to 0.070" bore
- 131801EA: 20-piece gear set includes 2 each of the following: T10, T20, T30, T40, T50 and 10 bushings

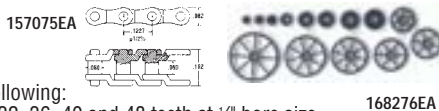
Part No.	Mfr. Cross Ref. No.	Description	Shaft Bore	O.D.	Press Fit Shaft Dia.	Gear Dia.	1	10
162069EA	T10	10 teeth	0.151"	0.48"	0.156 (5/32)"	0.457"	\$.69	\$.62
162085EA	T30	30 teeth	0.151"	1.27"	0.156 (5/32)"	1.239"	Was \$0.69 .49	.42
162093EA	T40	40 teeth	0.151"	1.67"	0.156 (5/32)"	1.634"	Was \$0.46 .20	.19
162106EA	T50	50 teeth	0.151"	2.07"	0.156 (5/32)"	2.016"	Was \$0.69 .25	.23
162392EA	BUSH1	Bushing	0.075"	—	0.078 (5/64)"	0.160"	*	.24
Part No.	Mfr. Cross Ref. No.	Description					1	10
131801EA	GA1	Gear set - 20 piece (see description above)					\$7.99	\$7.29



16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain tension load: 2.0 lbs.
- 168276EA: 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth at 1/8" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth at 1/4" bore size

Part No.	Mfr. Cross Ref. No.	Description	1	10	25
157075EA	C1227	Drive chain (12" long)	\$9.95	\$8.95	\$7.95
168276EA	8890	Sprocket set - 14 pieces (see description above)	29.49	26.49	23.89



Obstacle Avoidance Robot

▲ 107-piece kit

Six crank motion legged robot utilizes an infrared light sensing system to find obstacles and maneuvers itself around them. This IR detection kit includes an infrared diode, photo diode, IC, 2 DC motors and all hardware.

• Dimensions: 12.0"L x 7.0"W x 3.5"H

Part No.	Description	Weight	Price
140821EA	Spider kit	1.2 lbs.	\$59.95



MONDO•TRONICS Electric Pistons™

Deluxe 5 Pack

The Electric Piston is a shape memory alloy actuator that pulls with up to one pound of force and contracts by 20mm. Typical activation requires one volt at five amps for two seconds. Plus, mount several pistons in parallel for more strength, and in series for longer strokes.

• 1 volt @ 5 amps

Includes: Five pistons, battery, leads and plans for four complete projects

Part No.	Description	1	10
141903EA	Electric piston pack	\$39.95	\$34.95



High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Torque: 49 oz.-in. @ 4.8V
- Speed: 16 seconds to 60°
- Size: 0.8"W x 1.4"D x 1.6"H

Part No.	Mfr. Cross Ref.	1	10
157067EA	14500	\$19.95	\$17.95



Climax Spider Shaft Couplers

Part No.	Description	1	10	100
209285EA	.156" shaft hub	\$.69	\$.52	\$.35
106622EA	Rubber spider	.75	.68	.61
138288EA	.250" sleeve coupler	4.49	4.05	3.65



Low-Price Guarantee

99% In-Stock

24/7 Service

New and Out-of-Production



Visit www.Jameco.com/Kits
for our complete selection of kits.



See next page for Ordering Information

Fax 1-800-237-6948 Order 24 hours/7 days a week!

Jameco, 1355 Shoreway Road, Belmont, CA 94002 Call: 1-800-455-6119 International TEL: 1-650-592-8097 FAX: 1-650-592-2503

1 Ordered By: (We will ship to this address unless you enter #2).
Customer No. _____ **VIP No.** _____
(see back cover)

Company

Name of Requisitioner

Title

Name of Purchasing Agent

Title

Street Address/PO Box Number

City

State

Zip Code

Contact information (please provide all information and check method preferred)

()

☐ Daytime phone number - Required for Credit Card Orders

()

☐ Fax Number☐ E-mail Address☐ Please check this box if you would not like to receive special offers via e-mail from Jameco.

2 Ship To: (Only required if different)

Company

Name

Title

Street Address/PO Box Number

City

State

Zip Code

3 Method of Payment:

☐ Prepaid (check enclosed)☐ C.O.D. (\$7.00 service charge)☐ Net 30 Days (Account must be previously established. Authorized P.O. # required.)

PURCHASE ORDER NO.: _____

☐ Credit Card

Credit Card users only:

Credit Card Number Exp. Date: Month Year Name on card _____

Billing Address Street/PO Box

City/State/Zip

4

ITEM NO.	QTY.	PART NUMBER	DATA SHEETS	DESCRIPTION	PAGE NO.	WEIGHT (LBS.)	UNIT PRICE	TOTAL
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

TOTAL WEIGHT

SUB-TOTAL

5

Please Check Shipping Method Below:



- ☐ **Priority Mail (USPS)**\$4.75 for 1st lb., \$1.90 for each additional lb.
- ☐ **Ground**\$6.50 for 1st 2 lbs., \$0.74 for each additional lb.
- ☐ **2 Day Air Service**\$12.00 for 1st 2 lbs., \$1.50 for each additional lb.
- ☐ **Next Day Air Service (AM delivery)**\$21.50 for 1st 2 lbs., \$1.95 for each additional lb.
- ☐ **Next Day Air Service (PM delivery)**\$16.00 for 1st 2 lbs., \$1.95 for each additional lb.
- ☐ **Foreign Shipment via Air Parcel Post**Shipping approximately 25% of order total. Excess fees will be refunded. Additional shipping methods available

Some restrictions may apply. See order information on next page for other shipping methods and conditions of sale.
 Shipping rate is based on a single package shipment.

Add \$5.00 processing fee on orders under \$20

Please Add Applicable Sales Tax (California Only)

Shipping (See Item 5)

C.O.D. (add \$7.00)

Canada and Mexico Certificate of Origin (\$25)

Credit Memo (please attach)

-

TOTAL**6****JAMECO® thanks you for Your Order!**

FOR OFFICE USE ONLY

_____ / _____

PAYMENT OPTIONS

Credit Card/Check Cards

We accept VISA, MasterCard, American Express and Discover. No surcharge. Your account will not be charged until your order is shipped. When ordering, please advise name on card and credit card billing address.

Check or Money Order

You may pay by check or money order in U.S. funds, drawn on a U.S. bank.

Open Account

It is easy to open an account with Jameco. Contact us for obtaining open account status.

C.O.D.

Personal checks are accepted. Please add \$7.00 per C.O.D. order. Include the name and address of your bank and your account number.

International Orders

All foreign orders must be prepaid with a credit card (see approved credit cards above), wire transfer, traveler's check, cashier's check or money order drawn on a U.S. bank in U.S. funds only. Please do not send cash. Jameco cannot accept letters of credit as a form of payment.

E-mail: international@jameco.com.

SERVICES

30-Day Money Back Guarantee

If for any reason you are not completely satisfied with your purchase, simply return the product, in its original packaging, within 30 days for a refund, credit or exchange. Parts returned due to customer ordering error may be subject to a restock fee. Call our customer service department at 1-800-536-4316 or visit www.jameco.com to request an RMA#. It should appear clearly on the outside of the box. Returns without an RMA# will not be accepted, and no freight collect packages will be accepted. A completed Jameco customer service form, located on the back of the packing slip, must be included with your return. We're sorry, but books, kits, software, grab bags and special orders cannot be returned. Special orders consist of products sold at an OEM quantity discount or products not listed in the Jameco catalog.

Jameco Warranty

Jameco warrants all merchandise against defects in material or workmanship for a period of 90 days from the original purchase date unless otherwise stated in writing by Jameco. If Jameco receives the product considered to be defective within this warranty period and the product is determined to be defective, Jameco will, at its sole option and discretion, either repair or replace the product. The foregoing is your sole and exclusive remedy and states Jameco's entire liability arising out of this warranty. [However, Jameco will transfer to customer whatever transferable warranties and indemnities Jameco receives from the manufacturer of the products. Any claims arising from such manufacturer's warranties shall be the sole responsibility of the manufacturer and not of Jameco.] Moreover, Jameco's limited warranty is void if the damage or defect has resulted from improper customer assembly, failure by customer to follow instruction, product modification, negligent or improper operation, accident, abuse or misapplication. Products returned to Jameco pursuant to this warranty must be returned to Jameco prepaid.

No Other Warranties

The limited warranty above is exclusive and in lieu of all other conditions and warranties for the products and documentation. Jameco makes no other conditions or warranties, express, implied, statutory or otherwise, and expressly disclaims all other conditions and warranties, including but not limited to, implied conditions or warranties of merchantability, fitness for a particular purpose, and non-infringement of the products.

Limitation of Liability

Jameco shall not be liable for any incidental, special or consequential damages for breach of any warranty, expressed or implied, directly or indirectly arising out of Jameco's sale of merchandise, including any failure to deliver any merchandise, or arising out of customer's installation or use, whether proper or improper, of the product, separately or in combination with other equipment, or from any other cause. Products sold by Jameco are not authorized for use as critical components in life support devices or systems.

5 EASY WAYS TO ORDER

Telephone: Toll-Free 24 hours a day!



1-800-455-6119
International orders,
call 1-650-592-8097



Toll-Free

FAX:



US/Canada: 1-800-237-6948
Brazil: 000-817-455-6119
Columbia: 980-9-136748
Indonesia: 1-803-015-237-6948
Mexico: 001-800-593-1449
New Zealand: 080-044-0470
Other Countries: 1-650-592-2503

Online:



<http://www.jameco.com>
On-line catalog! Our complete offering of over 7,000 products searchable on the Jameco website!

Mail:



E-mail your order to:
sales@jameco.com or fill out the order form (previous page) and mail it to us.

In-Person:



Visit Jameco at 1355 Shoreway Rd., Belmont, CA. Will-call office hours are 8:00 a.m. - 5:00 p.m. Monday - Friday.

CONTACT INFORMATION

The following services are available at 1-650-592-8097 Monday - Friday from 6:30 a.m. - 5:00 p.m. PST or via e-mail:

- International Sales (international@jameco.com)
- Customer Service (custservice@jameco.com)
- Credit Department (credit@jameco.com)
- Technical Support (tech@jameco.com)

Toll-Free Hotline!

Please call us at 1-800-455-6119.

A Nuestros Clientes en

La Republica Mexicana: Si usted requiere tratar en Espanol y adquirir nuestros productos facturados L.A.B. Cd. De Mexico (libres de Aduana) y enviados al interior del pais via Estafeta, contacte con nuestro Representante y Distribuidor exclusivo;

Proyeccion Electronica de Mexico, S.A. de

C.V. a: General E-mail: info@proyel.com.

Quote E-mail: jmc@proyel.com

Phone/Fax: 01-(55) 5273-5029

Direccion:

Benjamin Franklin No. 166 Desp. 1
Col. Escandon Deleg. Miguel Hidalgo
C.P. 11800 Mexico, D.F.

Los demas paises de Latinoamerica: Ya pronto tendremos servicio en su Region. Si usted tiene alguna duda o comentario respecto a los servicios de Jameco, contacte con la empresa arriba mencionada en la Ciudad de Mexico, ellos le pueden ayudar.

PRICES

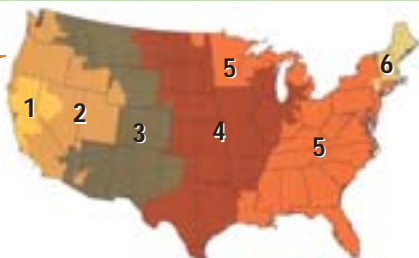
Prices are effective 1-19-04. In the unlikely event you find a lower price in a printed catalog or magazine, simply call us with the details at the time of purchase. We'll match any price above our cost. Prices and discounts are subject to change without notice. We are not responsible for any typographical errors in this catalog. Photos are representative; product appearance may vary.

ONLINE INFORMATION

Get answers to frequently asked questions on the Jameco website at:

<http://www.jameco.com>

SHIPPING INFORMATION



Guaranteed Delivery Time for UPS Ground (Business Days)

- | | | |
|--------|--------|--------|
| ① day | ② days | ③ days |
| ④ days | ⑤ days | ⑥ days |

Orders received Mon.-Fri. by 6:00 p.m. Eastern Standard Time will be shipped the same day. Orders received Saturday and Sunday will ship the following Monday (except on holidays). If we are unable to fill your order on the day received, we will send you a gift certificate worth \$5.00 towards your next Jameco purchase. This offer does not apply to orders waiting for credit approval or backordered items.

Options and Rates*



Shipping delivery times are based on working days.

Ground Service

Up to 6 working days for commercial address (up to 9 working days for residential).

Guaranteed delivery times may vary depending on zip code. \$6.50 for 1st 2 lbs.; \$0.74 for each additional lb.

2-Day Air Service

\$12.00 for 1st 2 lbs.; \$1.50 for each additional lb.

Next Day Air Service

- \$21.50 for AM delivery for 1st 2 lbs.; \$1.95 for each additional lb.
- \$16.00 for afternoon delivery for 1st 2 lbs.; \$1.95 for each additional lb.

Priority Mail (USPS)

\$4.75 for 1st lb.; \$1.90 for each additional lb.

Order must be placed before 5:00 p.m. Eastern Standard Time to ship same day.

Jameco reserves the right to rebill shipping surcharges for customer misaddressed packages

* The above rates apply to single box shipments that are less than 50 lbs. Please call for shipping quote on packages greater than 50 lbs.

International Shipping & Handling

Shipping is via courier or postal service, depending on your preference, insurance availability, and the size and weight of your package. Jameco will apply actual shipping charges with a nominal handling charge on all foreign orders. For mail-in customers, please include 25% for shipping charges or call for a shipping quotation. All returns that meet postal requirements must be sent prepaid via air parcel post. All courier shipments to Canada and Mexico require a certificate of origin. Jameco will provide a certificate of origin for a \$25 processing fee.

POLICIES

Confirming Orders

Please do not send confirming orders. If company policy necessitates a confirming order, please mark "CONFIRMING" boldly on the first page of the order.

No Minimum Order

A \$5.00 processing fee will be added to orders under \$20.00.

A

A/D CONVERTERS.....	20,21
ACCELEROMETERS.....	99
ADAPTERS.....	
Audio/Video.....	16,88,89
BNC.....	87
Digital Audio Optical.....	88
Keyboard.....	74
Modular Telephone.....	85
PLCC.....	52
SMA/SMB.....	87
Telephone.....	84
USB.....	73
Wall Transformers.....	39,40,53
ZIF.....	53
ALARM.....	97
ALLIGATOR CLIPS/CONNECTORS.....	70
ANTI-STATIC EQUIPMENT.....	51
APPLE/MACINTOSH PRODUCTS.....	35,73,81,83
AUDIO EQUIPMENT.....	
Amplifiers.....	100
Antennas.....	87
FM Transmitters.....	100
Headphones.....	81,90,92
Microphones.....	81
MP3 Players.....	90-91
RCA Cables.....	88,89
Speakers.....	25,81
System (Audio).....	91
AUTOMOBILE POWER INVERTERS.....	40
AUTOMOTIVE.....	2,92,94-95

B

BANANA PLUGS.....	70,71
BASIC STAMP CONTROLLERS.....	100,101
BATTERIES & ACCESSORIES.....	
Alkaline.....	2,35,107,108
Chargers.....	35,92,100
Lead Acid.....	35
Lithium.....	35
Lithium Ion.....	35
Ni-CAD.....	35,51
NiMH.....	35
Rechargeable.....	35
Solar Cell Phone.....	92
Tester.....	2
Zinc Chloride.....	35
BINOCULARS.....	96
BNC CABLES/CONNECTORS/ADAPTERS.....	71,85,87
BOOKS.....	43
BOXES.....	54,55
BRACKETS/MOUNTING RAILS.....	73,77,78
BREADBOARDS.....	52,54,55
BREAKOUT BOXES.....	83
BUFFER, PRINTER.....	76
BUG BOXES AND TRAYS.....	54
BUZZERS.....	25

C

CABINETS/ENCLOSURES.....	54,55,76
CABLE CRIMPERS.....	60
CABLE STRIPPERS.....	60
CABLE TESTERS.....	83
CABLE TIES & CLAMPS.....	62
CABLE, ASSEMBLIES AND BULK.....	
Audio.....	78,88,89
BNC.....	71,87
Break-Out Box.....	83
Category 5 (UTP) Network.....	85,86
Category 6 RJ45 Network.....	84
Centronics.....	82
Coaxial.....	86
DB25-Pin Extension.....	74
Digital Audio Optical.....	88
Extension.....	73,74,78
Floppy Drive.....	78
Hard Disk Drive.....	78
IEEE 488/1284/1394 Cable.....	74,82
Keyboard.....	74,75
Management.....	62,76
Modem.....	74
Modular Telephone.....	84
Monitor.....	73,75
Mouse.....	75
Network.....	84,86
Null Modem.....	74
Patch.....	89
Power Cords.....	31,37,77
Printer.....	82
RCA.....	88,89
Retractable (USB/Firewire).....	93
Ribbon.....	78,86
SCSI.....	78
Serial.....	74
Shielded.....	82,86
SMA/SMB.....	87
S-VHS.....	89
Switch Box.....	74
Telephone.....	84
Testers.....	83
Ultra DMA 66.....	78
Universal Serial Bus (USB).....	73,93
Video, Patch.....	89
Video, RGB.....	73,88

CAMERAS AND ACCESSORIES

Antennas/Boosters.....	16
Board.....	16
CCD.....	3,14-16
Dome.....	15
Enclosed.....	14,15
Infrared.....	15
Lenses.....	15,16
Mounts, Mounting Kits, Brackets.....	15,16
Outdoor.....	3
Surveillance.....	12-14
Transmitters/Receivers.....	13,16
USB.....	72
Wireless.....	14,16

CAPACITORS

Assortment/Kits/Grab Bags.....	40,42
Ceramic Disc.....	22
Dipped Tantalum.....	22
Electrolytic, Axial.....	22
Electrolytic, Radial.....	22
Kits.....	42
Monolithic, Ceramic.....	22

CARDS, COMPUTER

Camera Board.....	16
Controller.....	71
Diagnostic.....	83
Graphic.....	72
Hard/Floppy Disk Drive Controller.....	71
Input/Output.....	71
Interface.....	71
Network.....	82
Parallel.....	71
Prototyping.....	53-55
Serial.....	71
USB.....	73

CD-ROM DRIVES & ACCESS.

CD-ROM DRIVES & ACCESS.....	2,77,78,91
-----------------------------	------------

CELL PHONE ACCESSORIES

Chargers.....	92
Headset.....	92
Power Adapters.....	92
Solar Batteries.....	92

CIRCUIT BOARD MNTG HARDWARE

CIRCUIT BOARD MNTG HARDWARE.....	55
CIRCUIT BOARDS.....	53-55
CLIPS, Test.....	18,71
CLOCK CHIPS.....	20
COMPASS MODULE.....	99

COMPONENT ASSORTMENTS

Carbon Film Resistors.....	23,41
SMD Resistors.....	23
COMPONENT CABINETS.....	54

COMPUTER

Accessories.....	78
Board/Cards.....	71,72,83,85,100
Brackets.....	73,78
Cables, Int./Ext./Network.....	73-75,78,82
Cameras.....	14-16,72
Cases/Enclosures.....	2,76
CPU Fans.....	32
CPUs/MPUs.....	17
Drives.....	2,73,77,78
Duster/Blower.....	62
Fans.....	78
Hardware/Brackets/Rails.....	73,77
Industrial Products.....	71,76
Keyboards.....	79
Keypads.....	79
Lights.....	80
Memory.....	72
Mice.....	79
Monitor.....	14,72
Motherboards.....	72
Power Cords.....	37,77
Power Supplies.....	75
Prototype Boards.....	53,54
Signal Converter.....	71,74
Switch Boxes.....	75
Trackballs.....	79
Vacuums & Accessories.....	79
Video Cards.....	72
Video RAM.....	17

CONNECTORS

ATX.....	48
BNC.....	85,87
Centronics, IDC/PCB Right Angle.....	51
Coax.....	87
D-Sub, Hardware/Hoods/Crimp Housing.....	50
D-Sub, IDC/Solder Cup.....	50,51
D-Sub, PC Mount, Right Angle/Straight.....	50,51
Gender Changers.....	73,74
Header Receptacles.....	49
Headers.....	49
Housings, Square Pin.....	45,48
IDC Plug & Socket/Wire.....	48
Modular/Telephone.....	84,85
Molex.....	49
Network.....	84,85
Pins, Crimp/Power.....	48,49
Power.....	48,49
RCA Jacks/Plugs.....	88,89
Shorting Blocks.....	89
SMA/SMB.....	87
Telephone.....	84,85
Terminal Blocks.....	48

CONSUMER PRODUCTS

Binoculars.....	96
Compasses.....	2,94
DVD Players.....	5
Garage Door Opener.....	95
Inflator/Deflator.....	62
Mini Cooler/Warmer.....	96

Miscellaneous.....	95-96
MP3 Players.....	90-91
Navigator.....	94
Night Lights.....	3
Radios.....	90,96
Remotes.....	95,97
Shredders.....	80
Solar.....	3,65
Telephones.....	93
USB Recorder.....	108
Vacuums & Accessories.....	62
Weather Station.....	97

CONTROLLER CARDS

CONTROLLER CARDS.....	71
CONTROLLERS.....	
Micro.....	18,100
Motor.....	32,99
PIC.....	18,101
Robotics.....	100

CONVERTERS, DC-DC

CONVERTERS, DC-DC.....	
Encapsulated.....	36
Enclosed.....	36
Open Frame.....	36

CONVERTERS, SIGNAL

CONVERTERS, SIGNAL.....	71,74
COOLERS, THERMOELECTRIC/CHIPS.....	78
CORDS, POWER.....	37,77
COUPLERS, SHAFT.....	101
CPUs.....	17
CRIMP PINS.....	48,49
CRIMPING TOOLS.....	60
CRYSTALS/OSCILLATORS.....	26

D-E

D/A CONVERTERS.....	20,21
DATA BOOKS.....	43
DC/GEARHEAD MOTORS.....	33
DC-AC INVERTERS.....	40
DC-DC CONVERTERS.....	36
DESOLDER STATION & EQUIP.....	56,57
DIGITAL LABS.....	52
DIGITAL MULTIMETERS.....	66,67,70
DIGITAL PANEL METERS.....	30
DIODES.....	

Infrared (LEDs).....	29
Kits/Grab Bags.....	42
LED Displays.....	28
LEDs.....	28,29
Rectifiers, Bridge, SCR.....	27
Switching.....	27
Triacs.....	27
Zener.....	27

DIP SWITCHES

DIP SWITCHES.....	45
DISPLAYS, LED & LCD.....	28,30
DISPLAYS, VIDEO TEXT.....	16

DIY HOME UPGRADES

DIY HOME UPGRADES.....	
Home Security Solutions.....	9,11,13
Remote Controlled Lighting.....	7-9,65,106,107
Video Surveillance Accessories.....	9,13
Video Surveillance Kit.....	12,13

DRILL BITS

DRILL BITS.....	59,60
-----------------	-------

DRIVES, COMPUTER

DRIVES, COMPUTER.....	
Accessories.....	77,78
Cases/Enclosures.....	2
CD-R/RW.....	2
CD-ROM.....	77
Floppy.....	77
Hard.....	78
Thumb Drives.....	73

EDUCATIONAL ELECTRONIC LABS

EDUCATIONAL ELECTRONIC LABS.....	52
EEPROMS.....	52
ELAB.....	20

ELECTRONIC KITS

ELECTRONIC KITS.....	2,5,99-101,106-108
ENCLOSURES.....	54,55,76
EPROM ACCESSORIES.....	51
EPROM PROGRAMMERS/ERASERS.....	51
ETHERNET PRODUCTS.....	82,85

F**FANS & ACCESSORIES**

FANS & ACCESSORIES.....	
AC Tube-Axial.....	31
Brushless DC.....	31
Cooling System.....	78
Cords.....	31
CPU Heat Sink w/ Fan.....	32
Filters.....	31
PC.....	78

FAX/MODEMS

FAX/MODEMS.....	83
FILTERS, PWR. ENTRY/LINE/AC PLUG.....	37
FIREWIRE CABLES.....	93
FLASHLIGHTS/ACCESSORIES.....	2,64,65,97
FLOPPY DRIVES/ACCESS.....	77,78
FLOUORESCENT LAMPS.....	2
FREQUENCY COUNTERS.....	68,69
FUME EXTRACTOR & ACCESS.....	56
FUNCTION GENERATORS.....	66,68,69

FUSES & ACCESSORIES

FUSES & ACCESSORIES.....	
Clips.....	26
Fuses.....	26
Holders.....	26

G-H

GALs.....	18
GARAGE DOOR OPENER.....	95
GEARS.....	101
GENDER CHANGERS/ADAPTERS.....	73,74
GENERATOR, TELEPHONE RINGER.....	83

GIPB (IEEE-488).....	
Cables.....	74
Cards, PC.....	71
GRAB BAGS.....	40,54
HANDY BOXES.....	54,55
HARD DISK DRIVES/ACCESS.....	78
HARDWARE.....	
Computer Brackets.....	78
Drive Mounting.....	77
Heat Sink Mounting.....	28
Kit.....	40,42
LED Mounting.....	29
PCB Mounting.....	55
Prototype Enclosures.....	55
Rubber Feet.....	55
Screws, Nuts, Washers.....	50,54,55
Spacers.....	54,55
HEADERS.....	49
HEADSETS/HEADPHONES.....	81,90,92
HEAT GUNS.....	62
HEAT SHRINK TUBING.....	62
HEAT SINKS & ACCESSORIES.....	
486/Pentium Heat Sink & Fan.....	32
Compound.....	28
Mounting Kits.....	28
TO-3, TO-218, TO-220.....	28
HOME AUTOMATION.....	7,8,9,65,97,106,107
HOME OFFICE.....	
Letter Opener.....	80
Lights.....	80
Pens.....	91
Printers & Accessories.....	2,80,81
Shredder.....	80
Stapler/Staples.....	62
Telephones & Accessories.....	93
Voice Recorder.....	108
HOME SECURITY/SURVEILLANCE.....	11,12,13
HOODS, D-SUB.....	50
HUBS.....	73

I

I/O CARDS.....	71
IEEE 1284 CABLES.....	82
IEEE 1394 CABLES (Firewire).....	93
IEEE 488 (GIPB).....	

Cables.....	74
Cards, PC.....	71
INDUCTORS, TOROID.....	24
INDUSTRIAL COMPUTING.....	76

INFRARED

INFRARED.....	
Cameras.....	15
Diodes.....	29
Kits.....	99,106
Lighting Dimmers.....	7
Remote Control Modules.....	97,100

INPUT DEVICES

INPUT DEVICES.....	
Accessories.....	73-75,82
Keyboards/Keypads.....	79
Mice/Pointing Devices.....	79

INTEGRATED CIRCUITS

INTEGRATED CIRCUITS.....	
4000-CMOS (DIP/SMT).....	18,19,41
5000 Series.....	20
6500 Series/Commodore.....	18
6800/68000 Series.....	18
7400-TTL (DIP).....	19,40,41
74AC-TTL (DIP).....	19
74ACT-TTL (DIP).....	19
74C-TTL, CMOS (DIP).....	19
74HC-TTL, CMOS (DIP/SMT).....	19
74HCT-TTL, CMOS (DIP).....	19
74LS-TTL (DIP/SMT).....	19,20,40,41
74S-TTL (DIP).....	17

Test Clips	18
UARTs	18
Voice Chips	17
Voltage Regulators	18
Z80 Series	18
INVERTERS	40
ISOCOM OPTOISOLATORS	21

J-K

JACK SCREWS/HEX NUTS	50,54
JOYSTICK ADAPTER, USB	73
JUMPER LEADS	52
KEYBOARDS	79
KEYCHAINS	96
KEYPADS	45,79
KITS, COMPONENTS	
Assortment	41
Capacitors	40,42
CMOS, CD4000 Series	41
Diodes	42
Grab Bags	40,54
Hardware, Mounting	40,42
IC Kit, 7400 Series	41
IC Kit, 74LS00 Series	40,41
IC Sockets	41
LED Hardware	41
LEDs	40,41
Linear ICs	40,41
Potentiometers	42
Refills	41,42
Resistors	23,40,41
SMD Resistors	23
Switches	42
Transistors	42
KITS, ELECTRONICS	
Audio Transmitters and Amplifiers	100
BASIC Stamp Programming	100
Clock	106
Compass Module	99
Infrared Transmitters and Receivers	99,106
Liquid Level, Distance and Light	2,99,108
Miscellaneous	100,107
Motor Controller	99
PC Photo Etch	53
PCB Design Kit	53
Power Supply	99
Radar	99
Relay Controller	106,107
Robot Kits	100,101
Robotic Kits	108
Speech and Recognition	100
Timers	5,106,107
Velleman	99,100,106-108

L-M

LAMPS AND ACCESSORIES	
Fluorescent	2
Incandescent	30
Magnifier/Desktop	63,99
Power Supplies	2
LAPTOP PRODUCTS	
Cables	37
Cards	73,82
LASER	
Accessories	98
Diodes	98
Pointer	98
LCD DISPLAYS/MODULES	14,30
LEADS, TEST	70,71
LEAK ALARM	97
LED HARDWARE	29
LEDs	
Accessories/Hardware	29,40,41
Displays	28
High Output	28,29
Infrared	29,99
Kits/Grab Bags	40,41
Panel Indicators	29
Standard Output	29
LENSES (Camera)	15,16
LIGHT METER, DIGITAL	70
LIGHTING CONTROL	3,8,9
LOCK BOXES	3
LOGIC PROBE AND PULSER	66,68
MACINTOSH PRODUCTS	35,81,83
MAGNETIZER/DEMAGNETIZER	62
MAGNIFYING GLASSES/LAMPS	63
MEMORY	
Batteries	35
DIMM	72
EDO	72
SIMM	72
METERS	
Accessories	70
Benchtop	67
Clamp	67
DMM	66,67,70
Environmental	65,70
LCR	67
Pocket	66
Temperature/Time	65,70
MICE AND ACCESS.	79
MICROCONTROLLERS	18
MICROPHONE	
Cartridge/Condenser	25
Headset	81
PC Desktop	81

MICROPROCESSOR CRYSTALS	26
MICROPROCESSORS	17,18,100
MODEMS/FAX	83
MODULAR JACKS & ADAPTERS	84,85
MODULATORS	16
MONITOR TESTER	83
MONITORS	14,72
MOTHERBOARDS	72
MOTOR CONTROLLERS	32,99
MOTORS	
DC	33
Geared	33
Servo/Radio Controlled	101
Shaft Couplers	101
Stepper	32,33
Stepper Controllers	99
MP3 PLAYERS	90-91
MULTIMEDIA	72,81
MULTIMETERS	66,67
MUSCLE WIRE	101

N-O

NETWORK PRODUCTS	82-86,93
ORDER FORM & INFORMATION	102,103
OPTICAL SWITCHES	45
OPTOELECTRONICS	21
OPTOISOLATORS	21
OSCILLATORS/CRYSTALS	26
OSCILLOSCOPE PROBES/ACCESS.	69,70
OSCILLOSCOPES	69

P-R

PALS	18
PANAVISE	51,56
PANEL METERS	30
PATCH CORDS	70,84,85
PC BOARDS/EXTENDERS	52-55
PC PHOTO ETCH	53
PCB DEVELOPMENT TOOLS/ACCESS.	53
PCI CARDS	71,83,85
PENS	91
PERSONAL SECURITY	94-96
PHONE JACKS	84,85
PHONE LINE FILTERS (DSL)	85
PHONES	93
PHOTO TRANSISTORS	21
PHOTOCELLS	24
PIC MICROCONTROLLERS	18,53,101
PLUGS	
Banana	70,71
Power Entry	37
Power, Low Power	89
RCA	89
POTENTIOMETERS	
Bourns	24
Cermet	24
ClaroStat	24
Kits/Grab Bags	42
Linear Taper	24
Trimmer	24
POWER BASES/STRIPS	77
POWER CONNECTORS/PINS	
AT/ATX Motherboard	48
Disk Drive, Power Supply	49
Entry Filter	37
Kits	49
Pins	48,49
POWER CONVERTERS	36
POWER CORDS/ADAPTERS	31,37,77
POWER INVERTERS	40
POWER JACKS/PLUGS	40,89
POWER PINS	48,49
POWER PROTECTION	77,81
POWER SUPPLIES	
AC Variable Transformers	37
AC/DC	34,35,38,108
Benchtop	68
Breadboard	52
Computer	75
Enclosed	34,35
Kits	99
Linear	36,38
Open Frame	34
Switching	34,35,38,108
Table-Top	38
Unregulated	38
Wall Adapters	39,40,53,108
POWER TOOLS	58,59,61,95
POWER TRANSFORMERS	36
PRESSURE SENSOR	47
PRINTED CIRCUIT BOARD SUPPLIES	53
PRINTERS & ACCESSORIES	
Auto Switchers/Switch Boxes	75,76
Buffers/Sharers/Networks	2,76,93
Printable CD-R	80
Printer	80
PROBES	66,70
PROGRAMMERS	51,53
PROMS	17
PROTOTYPE ADAPTER	52
PROTOTYPE BOARDS	53-55
PUNCH DOWN TOOLS	60
RACKS, TEST LEAD	70
RACKS/RACK MOUNT EQUIP.	76
RADIOS	90
RAM	17,72
RCA, JACKS/PLUGS/CABLES	88,89

RECTIFIERS	27
RELAYS	
DIP	46
General Purpose	46,47,106
PCB	46,106
Power	46,106
Sockets	46,47
Solid State	47
REMOTES	7-9,95,97
RESISTORS	
Assortments	23,41
Carbon Film	23,41
Kits/Grab Bags	41
Network	23
Surface Mount	23
RFI POWER/LINE FILTERS	37
ROBOTICS	100,101,102
ROTARY SWITCHES	45
RUBBER FEET	55

S

SCREWS	50,54
SCRs	27
SECURITY	2,3,12-16,65,94-96
SENSORS	
Pressure	47
Ultrasonic	47
SERVOES/CONTROLLERS	32,99,101
SHAFT COUPLERS	101
SHORTING BLOCKS	49
SHREDDER	80
SIMMS	72
SOCKETS & ACCESSORIES	
Assortment, Kits/Grab Bags	41
DIN	51
DIP	49,50
Machine Tooled	50
Oscillators	26
PLCC	50
PLCC Prototype Adapter	52
Relay	46
Slim Line	49,50
Sockets	46,47
Solder Tail	49,50
Wire Wrap	50
Wire Wrap ID Labels	50
ZIF	50
SOFTWARE	
PIC Programmer	53
Reference	43
SOLAR PRODUCTS	
Batteries	92
Cells	99
Lights	3,65
Miscellaneous	98
Modules	98
Panels	98,99
Radio	96
SOLDER/DESOLDERING EQUIPMENT	
Accessories	56,57
Pots	57
Pump	57
Solder	56
Sponges	57
Stations/Irons/Kits	56,57
Tips	56
Tools	56
SOLDERLESS BREADBOARDS	52
SOLENOIDS	32
SOUND DEVICES/BUZZERS	25
SPACERS	42,54,55
SPEAKERS	25,81
STANDOFFS	42,55
STATIC RAM	17
STEPPER MOTOR/CONTROLLERS	20,99
STEPPER MOTORS	32,33
STORAGE, CABINETS	54,63
SURFACE MOUNT	
Cases, Storage	54
Resistors	23
SURGE PROTECTORS	77,81
SWITCH BOXES/CABLES	74-76,87,93
SWITCHES	
AT Computer	44
DIP	45
General Purpose	45
Keylock	45
Kit/Grab Bag	42
Magnetic Reed	45
Optical	45
Pushbutton	44
Rotary	44
Tactile	44
Toggle	44
TABLE-TOP POWER SUPPLIES	38
TAPE MEASURE	58
TELEPHONE ACCESSORIES	83,85,93
TELEPHONE CONNECTORS	83-85
TELEPHONES	93
TEMPERATURE/TIME METERS	70
TERMINALS	
Blocks	48
European	48
Solderless	51

TEST EQUIPMENT	
Anemometer	70
Benchtop	67
Benchtop Power Supplies	68
Cable/Interface	69,83
Current Clamp Meter	67
Environmental	70
Fluke	67
Frequency, Counter/Generator	68-70
IC Test Clips	18
Leads/Probes	70,71
Light Meter, Digital	70
Logic Probe	66,68
Monitor	83
Multimeter, Analog/Digital	66,67,70
Oscilloscopes	69
Probes	66,70
Programmable Testers	51
Temperature/Time	70
Thermometers	70
Video	83
TEST LEADS/PROBES/CLIPS	18,70,71
THERMOELECTRIC COOLERS/CHIPS	78
THERMOMETERS	70
TIE MOUNTS	62
TOOL KITS	58,59,61,95
TOOLS	
Anti-Static	51
Bits (Rotary)	59,61
Crimping/Stripping/Cutting	60
Drills	59,60
Grinder (Electric)	61
Heat Gun	62
Insertion/Extraction	60
Kits/Sets	58,59
Nibbling	60
Pliers	60
Pocket Multi-Tool	63
Power	59,61
Punch-down	60
Ratchet/Socket Drivers	58,59
Saws	59
Screw/Nut Drivers	58,59
Soldering	56,57
Spring-Hook	59
Stapler/Staples	62
Tape Measure	58
Vises	51
Wire Wrap	59
Wire/Coax Cutters/Strippers	60
Wrenches	58,59,95
TRACKBALLS	79
TRANSFORMERS	
International Step Up/Down	37
Isolated	37
Power/Split Bobbin	36
Variable	37
Wall (AC and DC)	39,40,53
TRANSISTORS	27,42
TRANSMITTER, CAMERA	16
TRIACS	27
UARTs	18
ULTRASONIC SENSORS	47
UPS SYSTEMS	77
USB PRODUCTS	
Adapters/Connectors	73
Cable	73,83,93
Cameras	72
Cards	73
Charger	83
Hubs	73
Miscellaneous	73
Pocket/Thumb Drives	73
Voice Recorder	108
UVP EPROM ERASERS	51
VACUUMS AND ACCESSORIES	79
VGA/VIDEO CARDS	72
VIDEO ADAPTERS	16
VIDEO CONVERTERS	81
VIDEO MODULATORS	16
VIDEO MONITORS	14,72
VIDEO RAM	17
VISES	56
VOICE CHIPS/MODULES	17
WALL ADAPTERS & ACCESSORIES	
AC to AC	39
AC to DC	39,40,53
Enclosures	54
WALL JACKS/PLATES	85
WASHERS	50
WIRE JUMPERS	52
WIRE/CABLE, BULK (Also Cable Assemblies)	
Coaxial Cable	86
Computer Cable	86
Flat Ribbon Cable	86
Flexinol	101
Hookup Wire, Solid/Stranded	86
Modular Telephone Cable	86
Muscle Wire	101
Power/Speaker Wire	86
Retractable	93
Telephone	86
Ties	62
Twisted Pair/Category 5 (UTP)	86
USB	73,93
Wire Management	62
Wire Wrap	86
WIRELESS PRODUCTS	14-16,79,82
ZENER DIODES	27

Discover how easy it is to build your own home automation system while you amaze your friends and spoil your family with the convenience. Control your home lighting and other devices around the home with the touch of a button, or through your computer.

Velleman Home Automation Kits Compatibility Table

Description	Part No.	239476EA	120547EA 120555EA	128910EA	128928EA	239484EA	239492EA	239505EA	239516EA	239468EA	Touch Pad Controlled	Computer Controlled	IR Remote Controlled	Touch Pad Controlled	Computer Controlled	IR Remote Controlled
Relay Card K2633	239476EA	—								Yes	Yes					
15 ChannelReceiver/ Transmitter K6711/S6710	120547EA 120555EA		—	Yes	Yes	Yes						Optional			Optional	
Universal Relay Card K6741	128910EA		Yes	—	Yes	Yes				Yes	Yes	Yes	Yes	Yes	Yes	Yes
Computer Control Interface K8000	128928EA		Yes	Yes	—	Yes					Optional		Optional	Optional		Optional
Modular Lighting System K8006	239484EA		Yes	Yes	Yes	—	Yes	Yes	Yes	Yes				Yes	Yes	Yes
Dimmer Module K8007	239492EA					Yes	—							Yes*	Yes*	Yes*
Multi-Function Relay Module K8008	239505EA					Yes		—						Yes*	Yes*	Yes*
Slow-On/Off Dimmer K8029	239516EA					Yes			—					Yes*	Yes*	Yes*
8-Channel Touch Panel K8046	239468EA	Yes		Yes	Yes	Yes				—		Optional			Optional	

* Requires: 239484EA (K8006), pg 107

Dimmer Module ▲ 24-piece kit

Easy pushbutton up/down control of light sources. A brief push toggles on/off, while continued pushing engages dimming action. Memory function maintains preferred level. Includes soft-start function. Suitable for low voltage halogen lighting.

- For use with K8006 modular light base unit (P/N 239484EA, pg 107)
- Operating voltages: 110-125 or 220-240VAC @ 50-60Hz
- Maximum load: 2.5A (550W/220V; 275W/110V)
- Transient suppressor to avoid radio/TV interference according to EN55015
- Dimming speed: approximately 3.5 seconds
- Size: 2.6"L x 2.2"W x 1.0"H

Part No.	Description	Price
239492EA	K8007 Dimmer module kit	\$22.95

Slow-On/Slow-Off Dimmer ▲ 31-piece kit

Microprocessor controlled dual mode operation. Slow-on/slow-off dimmer with two independent and programmable delays. Dimming directions change with each key press. Has two lighting modes. Mode one provides control for slow on/slow off dimming and total light level depending on key pressed. Mode two provides instant full power lighting for a programmable time and then the light slowly fades to zero.

- For use with K8006 modular light base unit (P/N 239484EA, pg 107)
- 2 programmable delays: from 1 second to 1 hour
- No memory loss in case of power failure
- Soft-start function that prolongs life of bulb
- AC power: 110-125 or 220-240VAC @ 50-60Hz
- Maximum load: 2A (200W/110V; 400W/220V)

Part No.	Description	Price
239516EA	K28029 Slow on/off dimmer	\$22.95

Multi-Function Relay Module ▲ 30-piece kit

Fourteen different functions including timers, switching, flashing, interval, and random switching. Two pre-programmed delays. Learning mode for delays of 2 seconds up to 12 days. Pushbutton control. EEPROM for delay time storage in case of power failure. On-board transient filter for relay contacts or loads (selectable). Suitable for control of incandescent lighting, halogen lighting, fluorescent lighting, fans, valves, buzzers, and more.

- For use with K8006 modular light base unit (P/N 239484EA, pg 107)
- Operational voltages: 110-125V or 220-240VAC @ 50-60Hz
- Maximum load: 2.5A (550W/220V; 275W/110V)
- Size: 2.6"L x 2.2"W x 1.0"H

Part No.	Description	Price
239505EA	K8008 Multi-function relay module	\$24.95

Relay Card ■ 29-piece kit

Connecting a number of relays to the outputs of an electronic network may seem very simple, but in reality it could create some problems regarding the cabling. This kit provides an attractive and compact alternative. Easy to assemble and can be connected instantly. Can be used with K8046, 8 channel touch panel (P/N 239468EA, pg 107). Requires 9VDC @ 300mA power supply (not included); see below.

- 4 x 3A relay outputs
- Size: 3.0"L x 2.7"W

Part No.	Description	Price
239476EA	K2633 relay card kit	\$24.95
133891EA	9VDC @ 300mA power supply	3.95

Universal Relay Card ▲ 64-piece kit

An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

- Relay Output: Maximum 5A/220VAC
 - Contact Voltage: 12VDC/250mA
 - TTL or CMOS inputs
- 128910EA:**
- Dimensions: 8.3"L x 5.9"W
 - Weight: 1.8 lbs.

Requires: 220 or 125VAC power source

Part No.	Description	1	10
128910EA	K6714 Universal relay card kit	\$59.95	\$83.95
144186EA	VR15M121C relay (JZC-22F)	3.79	3.39



See pages 6-13 for our selection of DIY remote-controlled lighting and home security solutions.

velleman Home Automation Control Interfaces

User Definable 8-Channel Touch Panel ▲ 105-piece kit

Ever wanted your own keyboard with your own personal layout and symbols? Here is the solution: simply print your keyboard layout on a transparent foil and make your own keyboard. The function of each key can be selected (momentary or toggle) and each key is backlit. It is even possible to simulate "classic radio keys" (only one output can be ON, similar to a rotary switch). One key can be defined as a preset memory or serve as an "all clear" key. Completing the features of this unique keyboard is a "click" sound when the keys are operated. The output can easily be connected to your applications or to several of our home automation kits on these pages: K8006 Base unit for home modular light system (P/N 239484EA), K2633 relay card kit (P/N 239476EA), K8000 computer interface

card kit (P/N 128928EA), K6714 universal relay card kit (P/N 128910EA).

- Max. 8 definable keys
- LED status indication for each key/output
- Soft-touch see-through panel with 8 keys
- Backlight with dimming function
- Unique key-click feedback
- Design mounting bezel unit included
- Easy board-to-wire jumpers
- 4 different jumper selectable functions can be setup as: 8 independent keys (toggle or momentary key); 8 radio keys (simulation for rotary switch); 4 radio and 4 independent keys; single key is reserved for memory key or all clear key
- Size: 6.5"L x 3.5"W x 1.4"H
- 8 open-collector switches, 50V@100mA max.



NEW

Part No.	Product No.	Price
239468EA	K8046 8-channel touch panel	\$99.95

Computer Control Interface ▲ 301-piece kit

Connects to printer port without interruption of the printer. Works in control applications such as the infrared transit/receiver (P/Ns 120555EA and 120547EA, right).



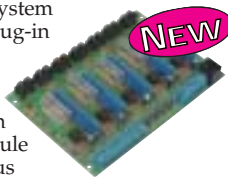
- 16 I/Os with optocouplers
- Analog outputs: eight 6-bit (64 steps), one 8-bit (256 steps)
- Analog inputs: four 8-bit (256 steps)
- Full opto-isolation with computer
- 3.5" driver disk w/ routines in C++, QBASIC, Turbo Pascal
- Dimensions: 9.3"L x 5.3"W • Weight: 1.7 lbs.

Requires: DB25 cable (P/N 65787EA, pg 74)

Part No.	Description	1	10
128928EA	K8000 computer control kit	\$139.95	\$125.95

Base Unit for Home Modular Light System ▲ 94-piece kit

Modular light control system for use with optional plug-in dimmer module K8007 (P/N 239492), plug-in timer module K8008 (P/N 239505) or plug-in slow-on /slow-off module K8029 (P/N 239516). Bus system holds up to five plug-in units. Optically-isolated push-button inputs can be controlled with K8000 computer interface card (P/N 128928) or K6711 IR remote control receiver (P/N 120547). Local control push-buttons included. LED power and channel operation indicators. Low-voltage (24VAC) control circuit for extra safety. Each plug-in slot is fused. Includes 10 LEDs for pushbutton illumination.



NEW

- 5 separated channels
- Max. output: 2.5A per channel (fuse protected)
- Pushbutton control current: 150mA
- Open collector control current: 25mA DC
- Power supply: 24VAC @ 300mA
- Supply voltage for modules: 110V to 240V
- Size: 4.2"L x 6.3"W x 2.8"H

Part No.	Product No.	Price
239484EA	K8006 Home modular light system kit	\$39.95

15-Channel Infrared Transmitter & Receiver ■ 64-piece kit

- Applications: remote on-off switch, alarms, garage door opener, etc.
- 15 independent channels
- Transmitter/receiver range: ±30 meters

120555EA Transmitter:

- Kit pieces: 37
- Weight: 0.7 lbs.

Requires: 9VDC battery (not included); see below

120547EA Receiver:

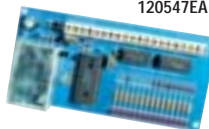
- Each of the 15 outputs can be a change-over or pulse contact switch
- Output: 50VAC @ 500mA max.
- PCB dimensions: 2.8"L x 5.7"W
- Kit pieces: 76 • Weight: 0.5 lbs.

Requires: 8-14VDC power supply (not included)

120555EA



120547EA



Part No.	Description	1	10
120555EA	K6710 15-channel transmitter	\$69.95	\$62.95
120547EA	K6711 15-channel receiver	49.95	44.95
198791EA	9 volt battery	2.85	2.55
151095EA	8-14VDC power supply	1.25	2.55

More kits are available on our website.
www.Jameco.com/Kits

1 Second to 3 Minute Timer Module

By operating a button, the relay will be activated for the selected time.

- Output contact rating: 5A @ 200VAC
- Size: 3.0"L x 1.7"W x 1.2"H

Requires: Power supply 12V @ 50mA (recommend P/N 100095EA, see website)



CEBEK

Part No.	Description	1	10
147871EA	1 second to 3 minute timer	\$19.95	\$17.95
100095EA	12VDC@200mA power supply	3.95	3.49

Electronic timer, a perfect gift!

This fun-to-build kit is a perfect introduction to the wonderful world of electronics. When it's finished, this handy timer times events up to one hour in one minute increments using one-button. It's a perfect addition for your kitchen. 16 LEDs keep the count, and the auto-off feature helps batteries last longer. Requires three AA batteries (not included).



■ 26-piece kit

Part No.	Description	Price
239409EA	Kitchen timer kit	\$19.95
249210EA	AA batteries (pack of 4)	2.56

Clap-On, Clap-Off

Learn all about sonic remote control, and then enjoy the benefits of clap-on, clap-off convenience. Control lights or other appliances (up to 24VDC at 3 amps) with adjustable one-clap or two-clap activation.



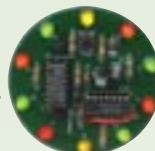
■ 42-piece kit

LED indicator, microprocessor precision, and 5-hour "off" timer are among the advanced features of this easy-to-build kit. Requires 12VDC @ 15mA power supply (not included).

Part No.	Description	Price
242747EA	Clap-on, clap-off kit	\$19.95
127976EA	12VDC @ 15mA power supply	4.75

Wheel of Fortune

This electronic wheel-of-fortune kit is a great way to have family fun on the road or at home. Push a button and 10 LED's imitate a spinning wheel gradually decreasing speed until it stops, lighting up one LED. Create your own faceplates with different cash rewards, gifts and other prizes. Carry everywhere and play your favorite game. Requires 9V battery (not included).



■ 26-piece kit

Part No.	Description	Price
242755EA	Wheel of fortune kit	\$9.95
198791EA	9 volt battery	2.85

Police Siren

Enter the world of amazing electronic sounds and noises. Create and imitate sirens of all kinds by adjusting 3 controls on the circuit board. Powerful sound with a 2W amplifier on the PCB. Requires 8-14VDC @ 1A power supply (not included).



■ 17-piece kit

Part No.	Description	Price
239450EA	K2604 Police siren kit	\$14.95
189325EA	8-14VDC @ 1A power supply	9.95

Quartz Clock Mechanism

Quartz clock mechanism for your self-made clock or as a replacement for damaged wall clocks. Suspension clip included. Requires one AA battery (not included). Size: 2.2"L x 2.5"W x 0.6"T.



Part No.	Description	Price
239661EA	Clock mechanism	\$3.99
249210EA	AA batteries (pack of 4)	2.56

Love is in the air... The perfect gift for that someone special!

46-Piece Beating Heart Kit

This kit shows a beating heart. Give it to someone you love.

- Power consumption: 8mA
- Requires 9V battery (not included)

Part No.	Description	Price
147555EA	Sweetheart kit	\$11.95
198791EA	9 volt battery	2.85

Now Introducing...

26-Piece SMT Flashing Heart Kit

Now introducing our new Flashing LED Heart kit in surface mount technology. Miniature components make it small enough to be worn around the neck or pinned to your shirt. An ideal introduction to SMD technology and it's a great attention grabber.

- 6 LEDs flash alternately
- Size: 1.9"L x 1.7"W x 0.3"Thick
- Requires 3V lithium button cell battery (CR2025 or CR2032) not included.

Part No.	Description	Price
242739EA	Sweetheart kit	\$9.95
14162EA	CR2032 coin cell battery	1.25



A DC adapter that REALLY adapts!

Replace your lost or faulty wall adapters with this one-stop, all-purpose switching power supply. Simply select from six output voltages (3, 4.5, 6, 7.5, 9 and 12 volts), choose the appropriate polarity, then pick the DC plug that fits the application (8 are supplied). Perfect for travelers, it's lightweight, versatile, and compact!

Part No.	Description	Price
239564EA	Compact travel power supply	\$22.95

Pocket "secretary" captures all your great ideas.

Once you begin to use this sleek, feature & accessory-packed tapeless recorder, you'll wonder how you ever got along without it. Record up to 396



Includes all the accessories needed!

addressable messages totaling 9 hours (SP) or 18 hours (LP). They can be meetings, phone conversations, and audio from external devices, all in flawless digital clarity. USB connectivity quickly downloads your recordings to your PC. Included accessories: earphone, external (meeting) microphone, telephone adapter, audio cable, PC software, USB cable, and hand strap.

Part No.	Description	Price
237198EA	Digital voice recorder	\$129.95

Motorized wooden kits, ideal for your child.

Your child will love building these kits and watching them walk. These kits come with "kid friendly" pre-punched wooden parts, gearbox, gears, shafts, switch, motor, and battery holder. A marvelous educational science project for ages 8 and up, and a great way to learn about gears and transmissions. These kits require no glue or soldering, just a few simple hand tools, and 2 AA batteries, (not included). Your kids will be building these kits in no time.

- Gear driven transmission
- Tools required: knife, screw driver, and long-nose pliers



Part No.	Description	Price
242915EA	Stegosaurus kit	\$16.95
242923EA	Tyrannosaurus kit	16.95
242894EA	Skeleton kit	16.95
249210EA	AA batteries (pack of 4)	2.56

Find More Products @ www.Jameco.com



1355 Shoreway Road, Belmont, CA 94002-4100

Toll Free Ordering, Customer Service & Technical Support
Domestic: 1-800-455-6119 / International: 1-650-592-8097

Domestic FAX: 1-800-237-6948 / International FAX: 1-650-592-2503
e-mail: info@Jameco.com

<http://www.Jameco.com>

PRESORTED STANDARD
AUTO CR

US POSTAGE PAID
JAMECO ELECTRONICS

Customer Number

VIP Number

